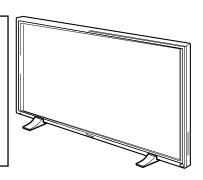
Pioneer sound.vision.soul





ORDER NO. ARP3093

PLASMA DISPLAY

PDP-503CMX PDP-503MXE

PDA-5002

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model			Power Requirement	Remarks	
Туре	PDP-503CMX	PDP-503MXE	PDA-5002	Fower nequirement	nemarks	
LUCB	0	_	_	AC100 - 120V		
YVLDK	_	0	_	AC100 - 240V		
BDK/WL	_	_	0			

• This Service Manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
PDP-503CMX PDP-503MXE PDA-5002	ARP3100	SCHEMATIC DIAGRAM and PCB DIAGRAM

CONTENTS

1. SAFETY INFORMATION 2	7. GENERAL INFORMATION ······ 126
2. EXPLODED VIEWS AND PARTS LIST 6	7.1 DIAGNOSIS126
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM ··· 26	7.1.1 PCB LOCATION 126
(For SCHEMATIC DIAGRAM, refer to ARP3100)	7.1.2 SHUT DOWN/POWER DOWN
4. PCB CONNECTION DIAGRAM ··· Refer to ARP3100	DIAGNOSIS BY LED DISPLAY 127
5. PCB PARTS LIST 50	7.1.3 AUTOMATIC BACKUP OF
6. ADJUSTMENT 66	DIGITAL VIDEO ASSY DATA 136
O. ADUGG TWENT	7.1.4 DISASSEMBLY 138
	7.2 IC INFORMATION 142

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2001

8. PANEL FACILITIES AND SPECIFICATIONS · 174

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NIOT	105
NO	I(;)-

(FOR CANADIAN MODEL ONLY)

Fuse symbols – (fast operating fuse) and/or – (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

1.1 SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.
 - Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.
- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
 - Always return the internal wiring to the original styling.
 - Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.

- 7. Perform the following precautions for the PDP panel.
 - When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
 - Make sure that the panel vent does not break. (Check that the cover is attached.)
 - Handle the FPC connected to the panel carefully.
 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
 - Be sure to wire the fan. If the fan does not work, the temperature will rise and cause the protection circuit to operate.
 - When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
 - Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

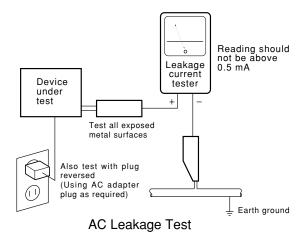
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3 M\Omega$ and a maximum resistor reading of $5 M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

1.3 CHARGED SECTION AND HIGH VOLTAGE GENERATING POINT

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the SW POWER SUPPLY Module)
- 5. STB Transformer and Converter Transformer (In the SW POWER SUPPLY Module)
- 6. Other primary side of the SW POWER SUPPLY Module

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Module	(225V)
2. X DRIVE Assy	(-300V to 225V)
3. Y DRIVE Assy	(355V)
4. SCAN (A) Assy	(355V)
5. SCAN (B) Assy	(355V)
6. X CONNECTOR (A) Assy	(-300V to 225V)
7. X CONNECTOR (B) Assy	(-300V to 225V)

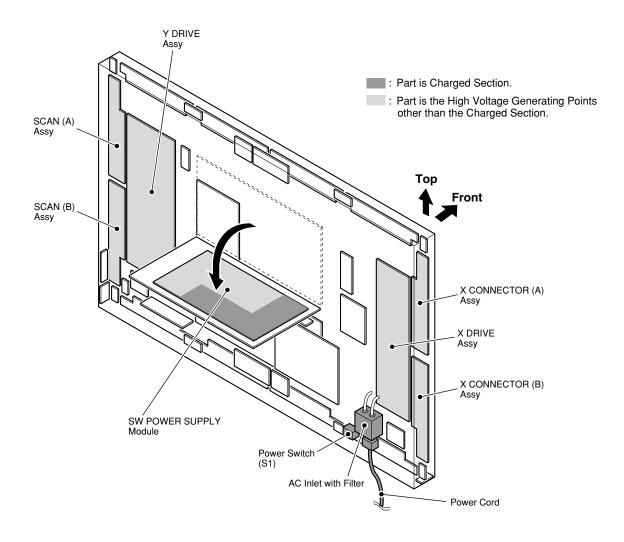


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

PDP-503CMX, PDP-503MXE, PDA-5002

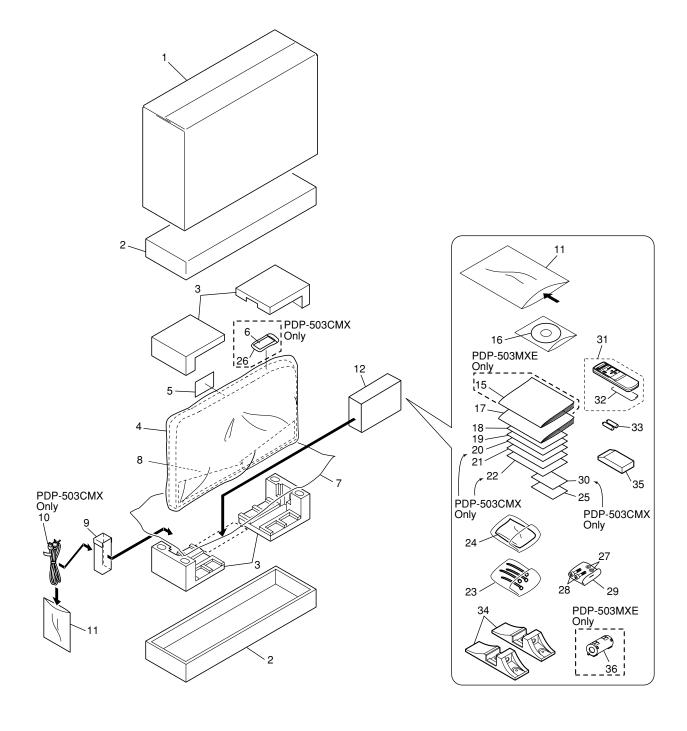
2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ∆ mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on the product are used for disassembly.

2.1 PLASMA DISPLAY (PDP-503CMX and PDP-503MXE)

2.1.1 PACKING



(1) PACKING PARTS LIST

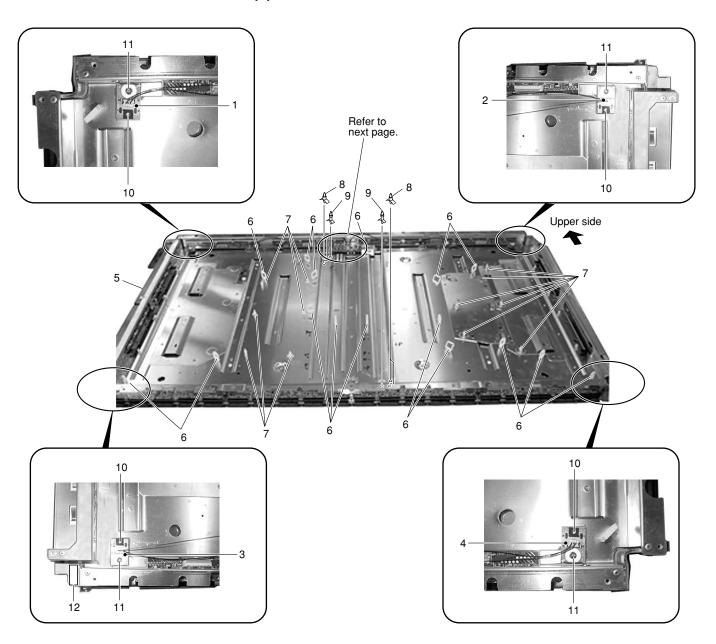
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1 2 3 4 5	Upper Carton Under Carton Pad Mirror Mat Caution Sheet	See Contrast table (2) AHD3037 AHA2280 AHG1284 ARM1201		20 21 22 23	Plasma Caution Sheet Plasma Caution Sheet Caution Sheet Binder Assy (Speed Clamp × 2, Bead Band	See Contrast table (2) See Contrast table (2) See Contrast table (2) AEC1758 × 2)
NSP <u></u> Δ	6 7 8 9 10	Warranty Card Polyethylene Sheet Front Sheet Cord Case Power Cord	See Contrast table (2) AHG1302 AHB1241 AHC1037 See Contrast table (2)	NSP NSP	24 25 26 27	Cleaning Cloth (for Wiping Front Panel) Warranty Card Vinyl Pouch Washer	AED1197 ARY1102 See Contrast table (2) WB80FZB
	11 12 13 14 15	Vinyl Bag Accessory Case Operating Instructions (Spanish/Italian/Dutch)	AHG1310 AHC1036 See Contrast table (2)		28 29 30 31 32	Hex Hole Bolt Vinyl Bag Caution Sheet Remote Control Unit Battery Cover	SMZ80H400FZB AHG-064 See Contrast table (2) AXD1459 AZN2462
	16 17 18 19	CD-ROM (information files) OPerating Instructions Caution Sheet Caution Sheet	AEX1027 See Contrast table (2) ARM1200 ARM1194	NSP	33 34 35 36	Dry Cell Battery (R6P, AA) Display Stand Remote Control Unit Holder Ferrite Core	AEX1026 AMR3264 AMR3268 See Contrast table (2)

(2) CONTRAST TABLE

PDP-503CMX/LUCB and PDP-503MXE/YVLDK are constructed the same except for the following :

			Part	Part No.			
Mark No.	No.	Symbol and Description	PDP-503CMX	PDP-503MXE	Remarks		
			LUCB	YVLDK			
	1	Upper Carton	AHD3094	AHD3097			
NSP	6	Warranty Card	ARY1093	Not used			
\triangle	10	Power Cord	ADG1178	Not used			
	15	Operating Instructions (Spanish/Italian/Dutch)	Not used	ARC1503			
	17	Operating Instructions (Japanese/English/French)	ARD1042	Not used			
	17	Operating Instructions (English/French/German)	Not used	ARE1360			
	20	Plasma Caution Sheet	ARM1145	Not used			
	21	Plasma Caution Sheet	ARM1147	ARM1149			
	22	Caution Sheet	ARM1176	Not used			
NSP	26	Vinyl Pouch	AHG-195	Not used			
	30	Caution Sheet	ARM1203	Not used			
	36	Ferrite Core	Not used	ATX1031			

2.1.2 UNDER LAYER SECTION (1)



• UNDER LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	
		CLAMP A Assy CLAMP B Assy	AWZ6650 AWZ6651		6 7	Wire Saddle Circuit Board Spacer	AEC1878 AEC1872	
	4	CLAMP C Assy CLAMP D Assy Service Panel Assy	AWZ6652 AWZ6653 AWU1040	NSP		Circuit Board Spacer PCB Spacer Locking Card Spacer	AEC1873 AEC1253 AEC1736	
		,			11 12	Screw V Cushion	ABA1301 AED1205	

■ Caution in Replacement of Panel Chassis (50) Assy

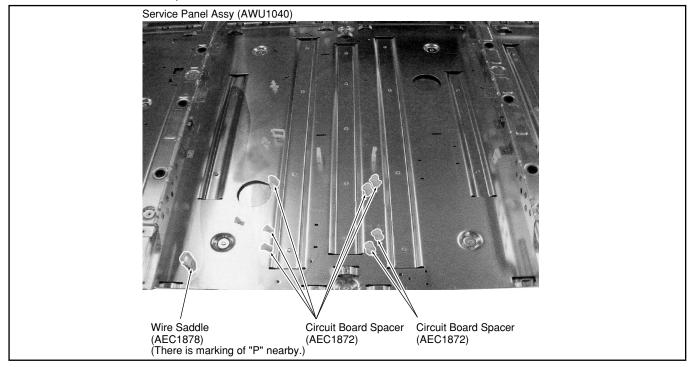
Service Panel Assy (AWU1040) is all common use parts of for business, public use and module. Supply it by the state that installed Circuit Board Spacer (AEC1872) and Wire Saddle (AEC1878)as follows. Therefore need to remove it in accordance with model.

Confirm character carved a seal near the parts, and remove it.

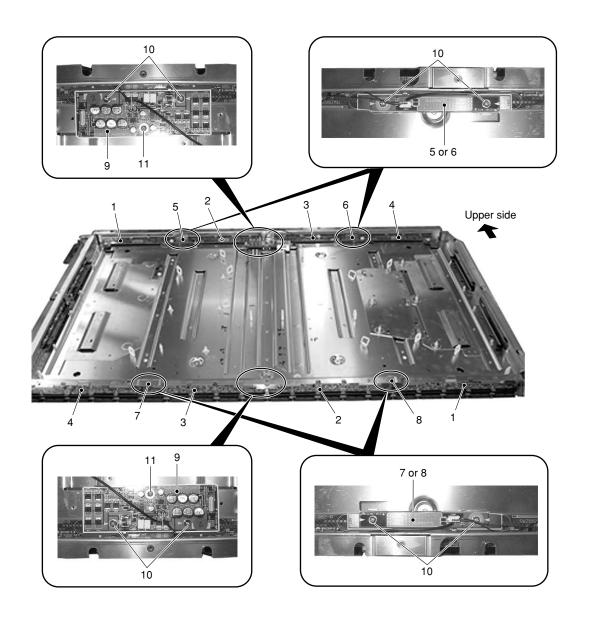
P: Public exclusive use W: Module exclusive use

PW: Common use of public use and module

* In case of this unit, all the parts carved a seal of character removes it.



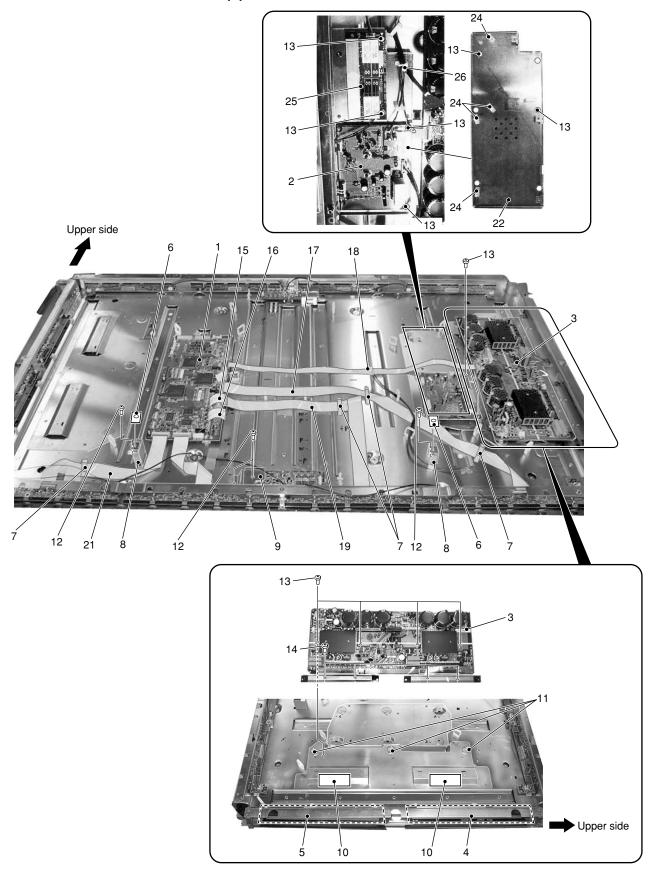
2.1.3 UNDER LAYER SECTION (2)



• UNDER LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.	Mark No.	Description	Part No.
	1	ADR CONNECT A Assy	AWZ6626	6	BRIDGE B Assy	AWZ6621
	2	ADR CONNECT B Assy	AWZ6627	7	BRIDGE C Assy	AWZ6622
	3	ADR CONNECT C Assy	AWZ6628	8	BRIDGE D Assy	AWZ6623
	4	ADR CONNECT D Assy	AWZ6629	9	RESONANCE Ássy	AWZ6630
	5	BRIDGE A Assy	AWZ6620	10	Screw	ABA1301
				11	Screw	VBB30P100FNI

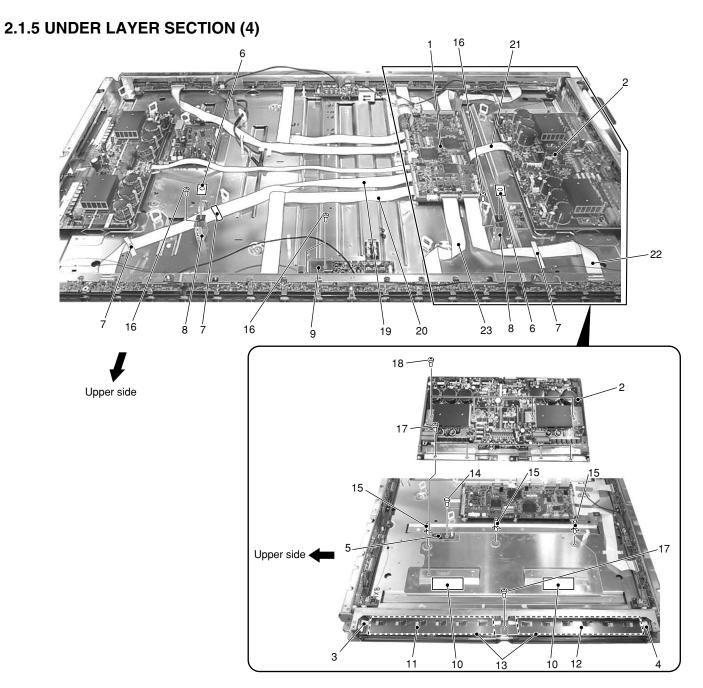
2.1.4 UNDER LAYER SECTION (3)



PDP-503CMX, PDP-503MXE, PDA-5002

• UNDER LAYER SECTION (3) PARTS LIST

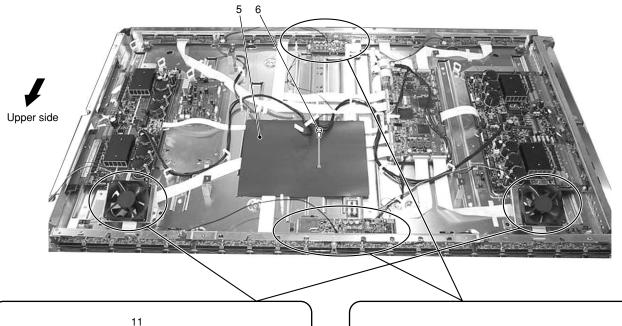
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1 2 3 4	DIGITAL VIDEO Assy MX AUDIO Assy X DRIVE Assy X CONNECTOR (A) Assy	AWV1903 AWZ6644 AWV1901 AWZ6618		16 17 18 19	J202 Flexible Flat Cable J209 Flexible Flat Cable J204 Flexible Flat Cable J210 Flexible Flat Cable	ADD1183 ADD1191 ADD1196 ADD1190
	5	X CONNECTOR (B) Assy	AWZ6619		20	J211 Flexible Flat Cable	ADD1186
NSP NSP	6 7 8 9 10	Insulation Sheet Flat Clamp Metal Fittings Heat Sink Coil Silicone Sheet	AMR3263 AEC1879 ANG2464 ANH1594 AEH1048	NSP	21 22 23 24 25	J212 Flexible Flat Cable Holder Circuit Board Spacer V MID CLAMP Assy	ADD1188 ANG2498 AEC1872 AWV1934
	11 12 13 14 15	Circuit Board Spacer Screw Screw Screw J201 Flexible Flat Cable	AEC1872 ABZ30P060FMC VBB30P100FNI PMB30P060FNI ADD1183		26	Niplocker	BEC1136

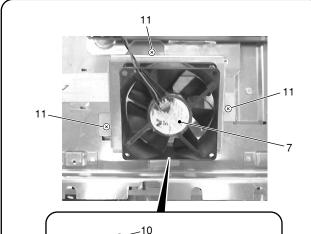


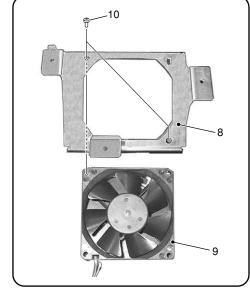
• UNDER LAYER SECTION (4) PARTS LIST

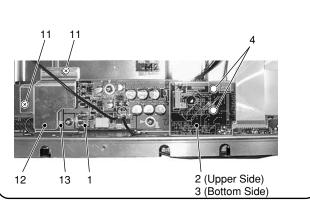
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	DIGITAL VIDEO Assy	AWV1903	11	Scan IC Spring (L)	ABK1026
2	Y DRIVE Assy	AWZ6645	12	Scan IC Spring (R)	ABK1027
3	SCAN (A) Assy	AWZ6616	13	Scan Insulation Sheet	AMR3271
4	SCAN (B) Assy	AWZ6617	14	Rivet	BEC1066
5	THERMAL SENSOR Assy	AWZ6639	15	Circuit Board Spacer	AEC1872
6	Insulation Sheet	AMR3263	16	Screw	ABZ30P060FMC
7	Flat Clamp	AEC1879	17	Screw	PMB30P060FNI
8	Metal Fittings	ANG2464	18	Screw	VBB30P100FNI
9	Heat Sink	ANH1594	19	J208 Flexible Flat Cable	ADD1191
10	Coil Silicone Sheet	AEH1048	20	J207 Flexible Flat Cable	ADD1190
			21	J203 Flexible Flat Cable	ADD1184
			22	J205 Flexible Flat Cable	ADD1189
			23	J206 Flexible Flat Cable	ADD1187

2.1.6 UNDER LAYER SECTION (5)





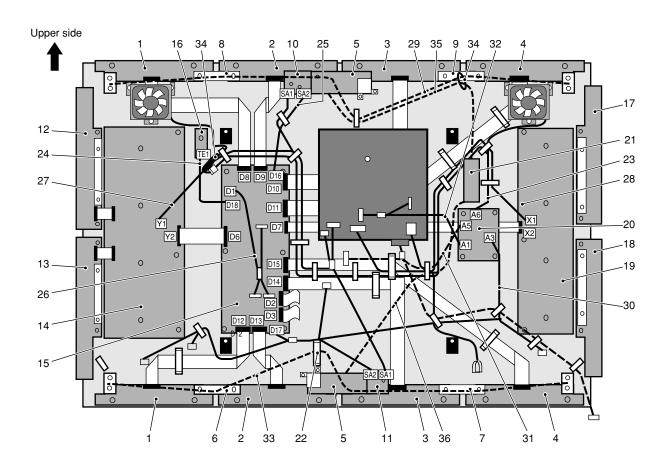




• UNDER LAYER SECTION (5) PARTS LIST

Mark	No.	Description	Part No.
	1 2 3 4 5	RESONANCE Assy SUB ADDRESS A Assy SUB ADDRESS B Assy Circuit Board Spacer Power Sheet	AWZ6630 AWZ6646 AWZ6647 AEC1873 AMR3291
NSP	8	Rivet Fan Label Fan Metal Fan Motor Screw	BEC1066 AAX2785 ANG2465 AXM1040 PPZ50P100FZK
NSP	11 12 13		ABZ30P060FMC ANH1594 AEH1039

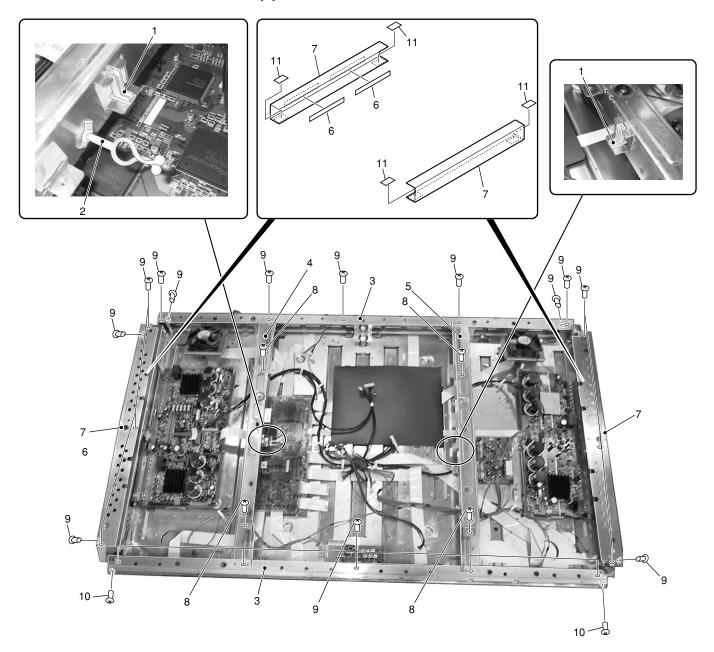
2.1.7 UNDER LAYER SECTION (6)



• UNDER LAYER SECTION (6) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	ADR CONNECT A Assy	AWZ6626		21	V MID CLAMP Assy	AWV1934
	1						
	2	ADR CONNECT B Assy	AWZ6627		22	Flat Clamp	AEC1879
	3	ADR CONNECT C Assy	AWZ6628		23	J115 3P Housing Wire	ADX2705
	4	ADR CONNECT D Assy	AWZ6629		24	J110 3P Housing Wire	ADX2704
	5	RESONANCE Assy	AWZ6630		25	J108 8P Housing Wire	ADX2701
	6	BRIDGE A Assy	AWZ6620		26	J101 Wire F	ADX2695
	7				-		
	/	BRIDGE B Assy	AWZ6621		27	J102 Wire E	ADX2694
	8	BRIDGE C Assy	AWZ6622		28	J103 13P Housing Wire	ADX2700
	9	BRIDGE D Assy	AWZ6623		29	J116 4P Housing SP Wire	ADX2725
	10	SUB ADDRESS A Assy	AWZ6646		30	J109 Wire G	ADX2696
	11	SUB ADDRESS B Assy	AWZ6647		31	J111 Wire I	ADX2698
	12	SCAN (A) Assy	AWZ6616		32	J104 Wire H	ADX2697
	13	SCAN (B) Assy	AWZ6617		33		ADX2725
						J117 4P Housing SP Wire	
	14	Y DRIVE Assy	AWZ6645		34	Binder	AEC-093
	15	DIGITAL VIDEO Assy	AWV1903		35	J118 5P Housing Wire	ADX2754
	16	THERMAL SENSOR Assy	AWZ6639		36	J119 5P Housing Wire	ADX2755
	17	X CONNECTOR (A) Assy	AWZ6618			arra ar riodaing rina	
	18	X CONNECTOR (B) Assy	AWZ6619				
	19	X DRIVE Assy	AWV1901				
	20	MX AUDIO Assy	AWZ6644				

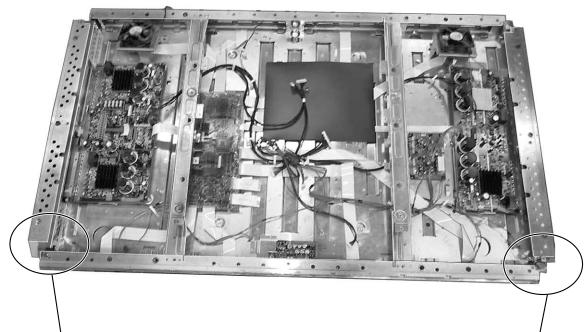
2.1.8 MIDDLE LAYER SECTION (1)

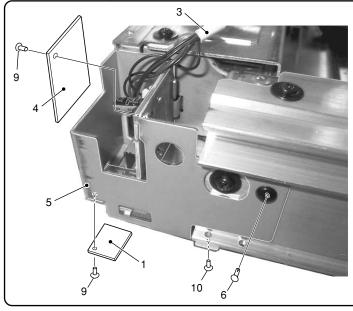


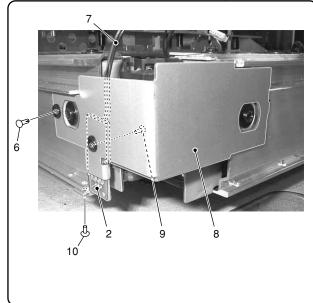
• MIDDLE LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
NSP NSP NSP	-	Card Corner Holder Niplocker Front Chassis H Sub Frame L Sub Frame R	BEC1144 BEC1136 ANA1683 ANG2455 ANG2456
NSP	6 7 8 9 10	FPC Cushion Front Chassis V Screw Screw Screw	AEB1370 ANA1661 ABA1283 ABA1294 BMZ30P060FMC
	11	V Cushion	AED1205

2.1.9 MIDDLE LAYER SECTION (2)



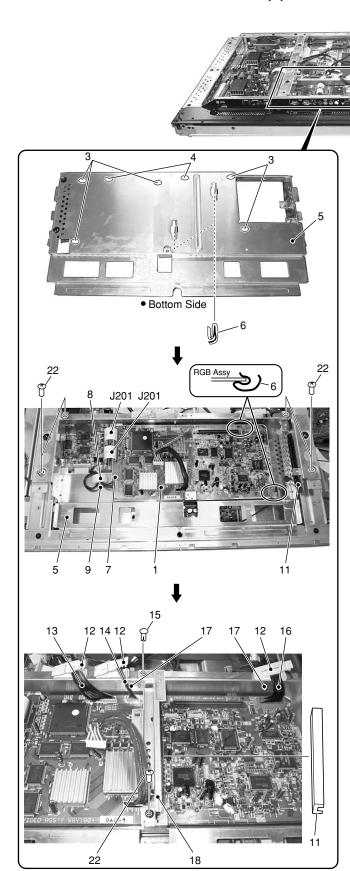




• MIDDLE LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.
NSP	1	IR Assy	AWZ6643
	2	MX LED Assy	AWZ6642
	3	J113 Wire J	ADX2699
	4	KEY CONNECTOR Assy	AWZ6638
	5	IR Holder	ANG2494
NSP	6	Nyron Rivet	AEC1671
	7	J111 Wire I	ADX2698
	8	Switch Holder	ANG2493
	9	Screw	BMZ30P040FMC
	10	Screw	ABZ30P050FZK

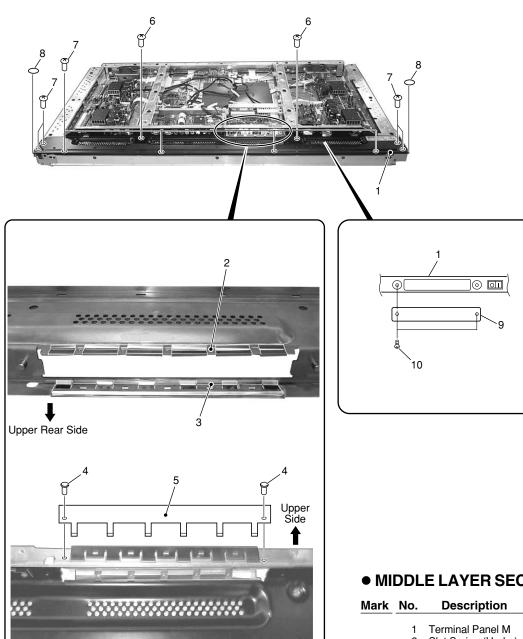
2.1.10 MIDDLE LAYER SECTION (3)





Mark	No.	Description	Part No.
NSP	1 2 3 4 5	RGB Assy SLOT CONNECTOR Assy Spacer Card Spacer RGB Base	AWZ6632 AWZ6634 AEC1065 AEC1882 ANA1662
		Ground Finger Card Spacer Ferrite Core (L3) Ferrite Core Holder	ANG2468 AEC1899 ATX1037 AEC1818
NSP	12 13	I	BEC1185 AEC1884 ADX2702 ADX2696 AEC1671
NSP		J111 Wire I Wire Saddle Video Stay	ADX2698 AEC1745 AND1171
NSP	21 22 23	PCB Stay Screw Screw	AND1170 AMZ30P060FZK VBB30P100FNI

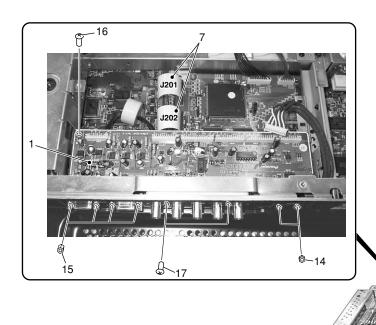
2.1.11 MIDDLE LAYER SECTION (4)

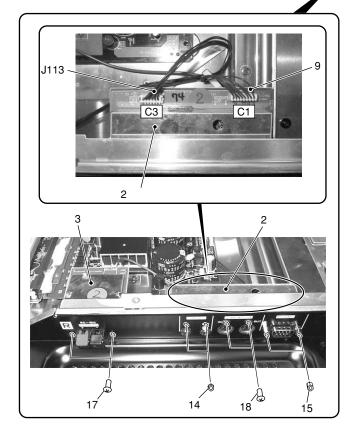


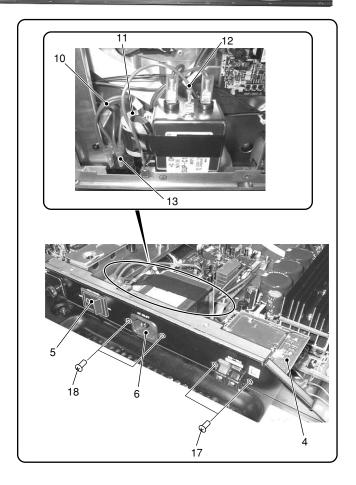
• MIDDLE LAYER SECTION (4) PARTS LIST

Mark	No.	Description	Part No.
	1 2 3	Terminal Panel M Slot Spring (Under) Slot Spring (Upper)	ANG2452 ABK1028 ABK1024
	3 4 5	Card Spacer Enclosure Sheet	AEC1898 AMR3281
	6 7 8 9	Screw Screw Rear Corner Label Expansion Slot Cover Screw	AMZ30P060FZK TBZ40P080FZK AAX2862 ANG2463 BMZ30P060FZK

2.1.12 UPPER LAYER SECTION (1)



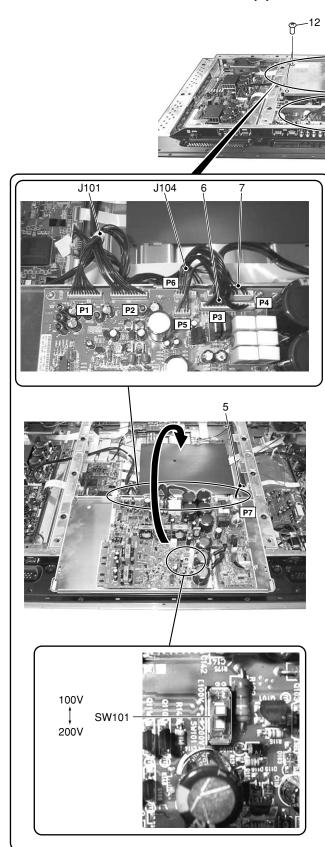


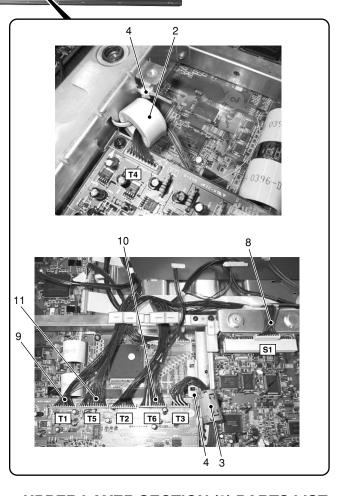


• UPPER LAYER SECTION (1) PARTS LIST

Mark	No.	Description	Part No.
⚠	1 2 3 4 5	I/O Assy CONTROL Assy SP OUT R Assy SP OUT L Assy Power Switch (S1)	AWZ6631 AWZ6633 AWZ6636 AWZ6635 BSM1006
Δ	-	AC Inlet with Filter (CN1) J201, J202 Flexible Cable J109 Wire G J106 Wire C	AKP1223 ADD1183 ADX2696 ADX2693
	12	Ferrite Core (L1) J114 Earth Wire J105 Wire B Hexagonal Nut Hexagonal Head Screw	ATX1032 ADX2709 ADX2692 ABN1035 BBA1051
	16 17 18	Screw Screw Screw	PMB30P060FNI BPZ30P080FZK BMZ30P060FZK

2.1.13 UPPER LAYER SECTION (2)

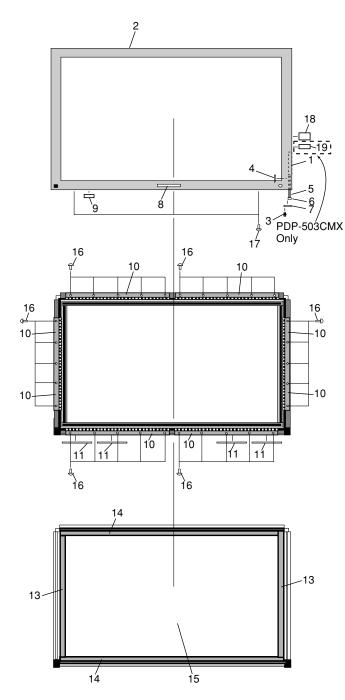




• UPPER LAYER SECTION (2) PARTS LIST

Mark	No.	Description	Part No.
Δ	1	SW Power Supply Module	AXY1053
	2	Ferrite Core (L3)	ATX1037
	3	Ferrite Core (L2)	ATX1039
	4	Binder	AEC-093
	5	J105 Wire B	ADX2692
	6	J102 Wire E	ADX2694
	7	J103 13P Housing Wire	ADX2700
	8	J112 13P Housing Wire	ADX2703
	9	J101 Wire F	ADX2695
	10	J104 Wire H	ADX2697
	11	J111 Wire I	ADX2698
	12	Screw	AMZ30P060FZK

2.1.14 FRONT CASE SECTION



• FRONT CASE SECTION PARTS LIST

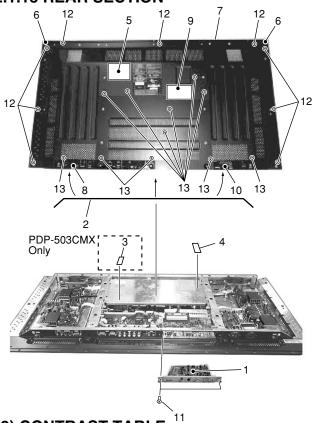
Mark	No.	Description	Part No.
	1 2 3 4 5	SIDE KEY Assy Front Case 50 (M) Rivet Flexible Seal J213 Flexible Cable	AWZ6637 AMB2698 AEC1877 AEH1036 ADD1195
NSP NSP		Ferrite Core (L4) Lead Cover (MX) Pioneer Badge Serial Label Panel Holder	ATX1043 AMB2703 AAM1091 AAX2609 ANG2466
	_	Front Spacer Panel Cushion V Panel Cushion H Protect Panel Assy	AEC1896 AED1199 AED1198 AMR3266
	16 17 18 19	Screw Screw Energy Star Label Display Label	ABZ30P050FZK VMZ30P060FZK AAX2856 See Contrast table (2)

(2) CONTRAST TABLE

PDP-503CMX/LUCB and PDP-503MXE/YVLDK are constructed the same except for the following :

			Part		
Mark	No.		PDP-503CMX	PDP-503MXE	Remarks
		Description	LUCB	YVLDK	
NSP	19	Display Label	AAX2836	Not used	

2.1.15 REAR SECTION



• REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	VIDEO SLOT ST1 Assy	AWV1906
	2	Gascket A	ANK1688
	3	Solder Warning Label	See Contrast table (2)
	4	Silicon Sheet P	AEH1035
	5	Cleaning Label	AAX2751
	6	Rear Corner Label	AAX2862
	7	Rear Case (50M)	ANE1597
	8	Terminal Display Label R	AAX2853
	9	Bolt Caution Label	AAX2852
	10	Terminal Display Label L	See Contrast table (2)
	11	Screw	BMZ30P060FZK
	12	Screw	TBZ40P080FZK
	13	Screw	AMZ30P060FZK

(2) CONTRAST TABLE

PDP-503CMX/LUCB and PDP-503MXE/YVLDK are constructed the same except for the following :

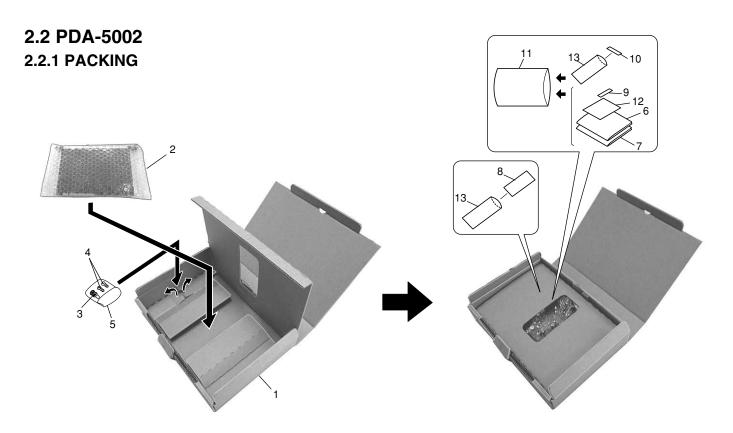
			Part	No.	
Mark	No.	Symbol and Description	PDP-503CMX	PDP-503MXE	Remarks
			LUCB	YVLDK	
	3 10	Solder Warning Label Terminal Display Label	AAX2644 AAX2855	Not used AAX2850	

2.1.16 PANEL CHASSIS (50) ASSY (AWU1037)

• PARTS LIST

• LIST OF ASSY

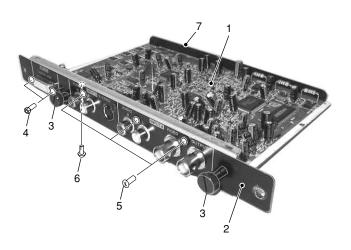
Mark No	. Description	Part No.	Mark	No. Description	Part No.
NSP	SCAN FUKUGO ASSY	AWV1898 *	NSP	SCAN FUKUGO ASSY	AWV1898
	ADDRESS FUKUGO ASSY	AWV1900 *	NSP	⊢ SCAN (A) ASSY	AWZ6616
NSP	Address Module (IC1 - IC40)	AXF1110	NSP	SCAN (B) ASSY	AWZ6617
NSP	FPC (0003)	ADY1065	NSP	X CONNECTOR (A) ASSY	AWZ6618
NSP	FPC (J0001)	ADY1066	NSP	X CONNECTOR (B) ASSY	AWZ6619
	,		NSP	- BRIDGE A ASSY	AWZ6620
NSP	Chassis	ANA1655	NSP	- BRIDGE B ASSY	AWZ6621
NSP	Base Chassis	ANA1656	NSP	- BRIDGE C ASSY	AWZ6622
NSP	Scan Heatsink	ANH1595	NSP	- BRIDGE D ASSY	AWZ6623
NSP	Corner Angle A	ANG2457	NSP	CLAMP A ASSY	AWZ6650
NSP	Corner Angle B	ANG2458	NSP	CLAMP B ASSY	AWZ6651
	ŭ		NSP	CLAMP C ASSY	AWZ6652
NSP	Tube Cover	AMR3262	NSP	└─ CLAMP D ASSY	AWZ6653
	Siricon Sheet 50	AEH1037			
	Adhesive Tape 50	AEH1038		ADDRESS FUKUGO ASSY	AWV1900
	Adhesive Tape B (50)	AEH1051	NSP	ADR CONNECT A ASSY	AWZ6626
	Pin Grommet \ \ '	AEC1015	NSP	ADR CONNECT B ASSY	AWZ6627
			NSP	ADR CONNECT C ASSY	AWZ6628
	Card Spacer	AEC1889	NSP	ADR CONNECT D ASSY	AWZ6629
	Scan Siricon Sheet	AEH1040	NSP	☐ RESONANCE ASSY	AWZ6630
NSP	Plasma Panel Assy	AAV1238			
	Screw	VBB30P100FNI			
0.4					



• PACKING PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	_ Part
	1	Packing Case	AHD3096	NSP	5	Vinyl Bag	AHG
	2	Sheet	AHG1315		6	Operating Instructions	ARC
	3	BNC/Pin Conversion Adapter	AKX1052			(Spanish/Italian/Dutch)	
	4	Screw	BMZ30P060FZK		7	Operating Instructions	ARD
		(Accessory Screw for Installing			(Japanese/English/French/Ge		
				NSP	8	Warranty Card	ARY
					9	Connector Indicator Label	AAX

2.2.2 MAIN UNIT



• MAIN UNIT PARTS LIST

NSP NSP 10 Label for Remote Control Unit 11 Vinyl Bag 12 Warranty Card 13 Vinyl Bag

Mark	No.	Description	Part No.
	1	VIDEO SLOT ST1 Assy	AWV1906
	2	Video Terminal Panel M	ANG2461
	3	Screw	ABA1295
	4	Hexagonal Head Screw	BBA1051
	5	Screw	BPZ30P080FZK
	6	Rivet	AEP-211
	7	Sheet	AMR3282

Part No.

AHG-064 ARC1504

ARD1043

ARY1093 AAX2854

AAX2875 AHG1310 ARY1102

AHG-195

В

С

D

26

1 ADDRESS CONNECT D

1

AD1

■ 2 **■** 3 **■** 4

ADDRESS CONNECT C

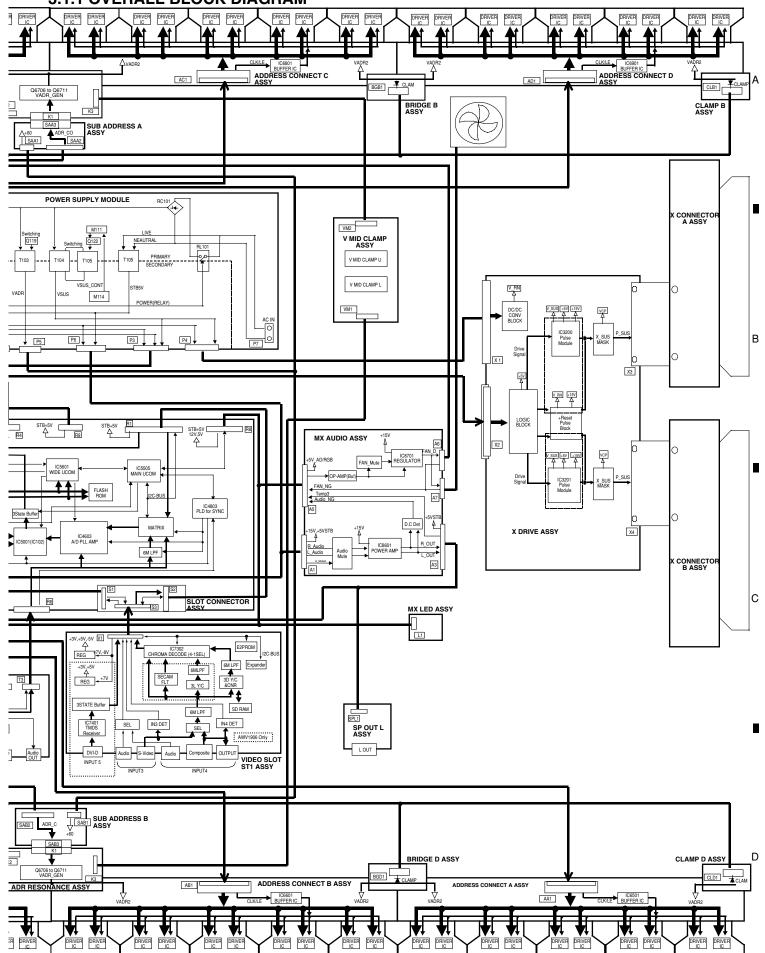
VADR2

K2

ADR RESONANCE ASS

3.1 BLOCK DIAGRAM

3.1.1 OVERALL BLOCK DIAGRAM



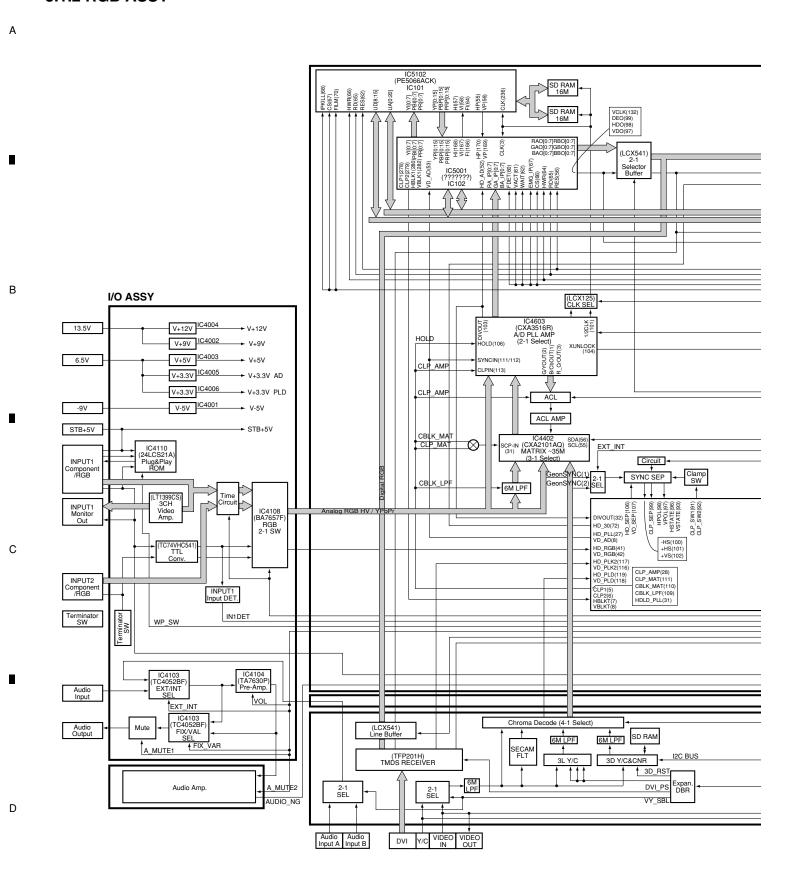
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

5

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3.1.2 RGB ASSY



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29

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В

С

3.1.3 DIGITAL VIDEO ASSY

RGB ASSY DIGITAL VIDEO ASSY IC1301 (IC31 L) (PD6358) DRAM RGB 2 phase 10 bit ADR CONNECT A - D Assy (Left section) IC5301 (PD6357) IC30 Line Buffer IC1401 (IC31 R) (PD6358) **DRAM** Address BUS Data BUS Control Signal ADR CONNECT A - D Assy (Right section) VD HD DE CLK 3.3V IC1191 Flash ROM Reflesh-rate Det. IC1703 (IC23) (PE5064) Y DRIVE Assy VD 31 APLR 3.3V Address Resonance Control IC1101 (HD64F2328VF) Panel Microcomputer X DRIVE Assy AND PC_VIDEO ADR_K_EMG RESONANCE Assy ADR K PD U ADR K PD D RXDO REM PM_ST PN_MUTE MAX_PLS1 DITHER MOD_SW POWER MAX_PLS2 OR Reset IC 5.0V ightarrow 3.3V ightarrow 5.0V AND APD MUTE CN1201 RST2 Panel W/B ADJ. Hour/Pulse meter pn EXT_RXD EXD RXD EXT_TXD EXD TXD STB5V 3.3V 2.5V EEP ROM RXDO IC5505 (M30624FGAGP) Main Microcomputer OR IC1207 (M30624FGAFP) Module Microcomputer DC/DC TXDO REQ_MD DCC PD 5V Converter Block WE_PN AC_OFF PD_TRIGGER RELAY RESET В Reset IC STB5V 12V DIG. THERMAL SENSOR Assy SW POWER SUPPLY Module

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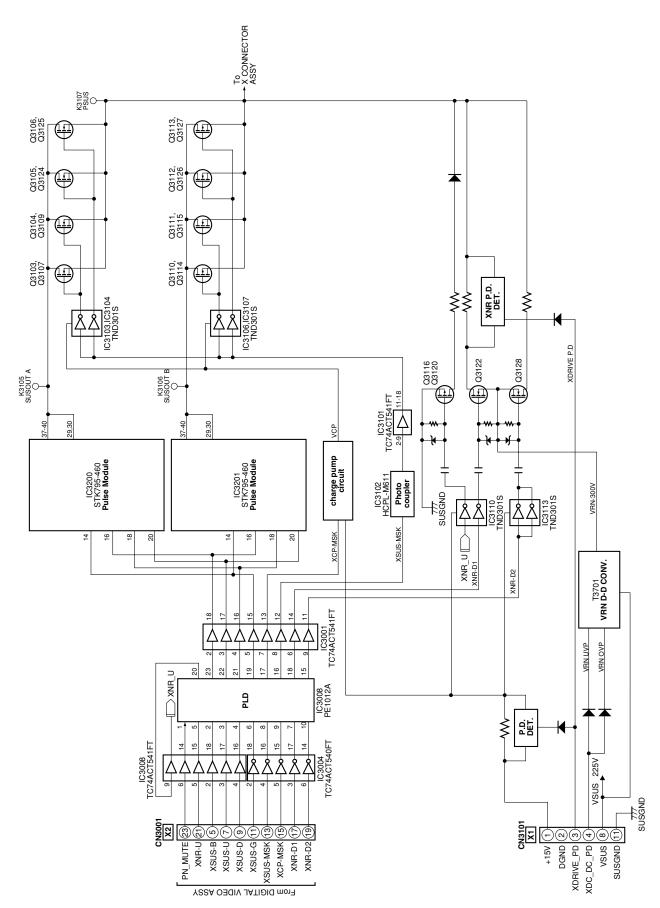
В

С

3.1.4 X DRIVE ASSY

1

1



2

3

2

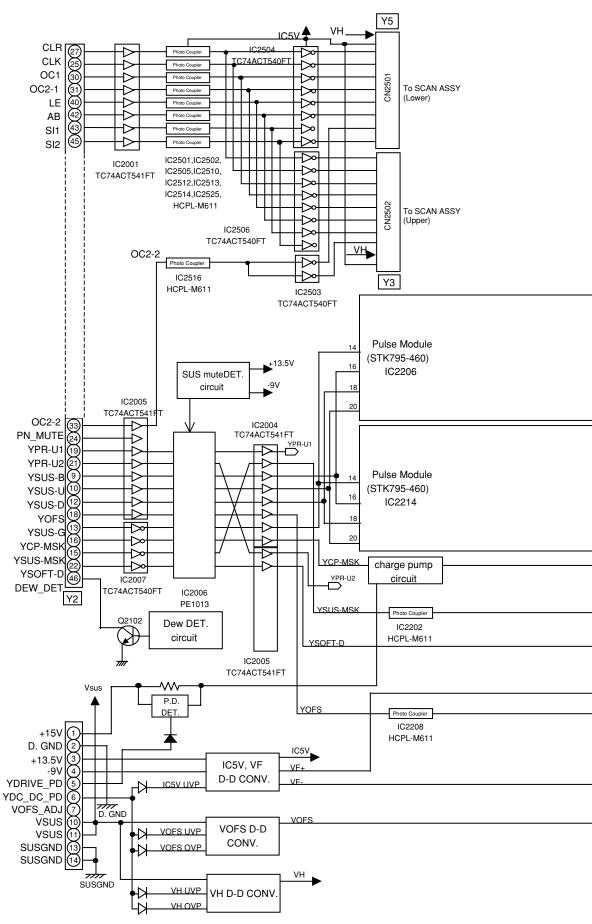
31

В

С

3

3.1.5 Y DRIVE ASSY



32

1

В

С

D

2

6

5

5

33

В

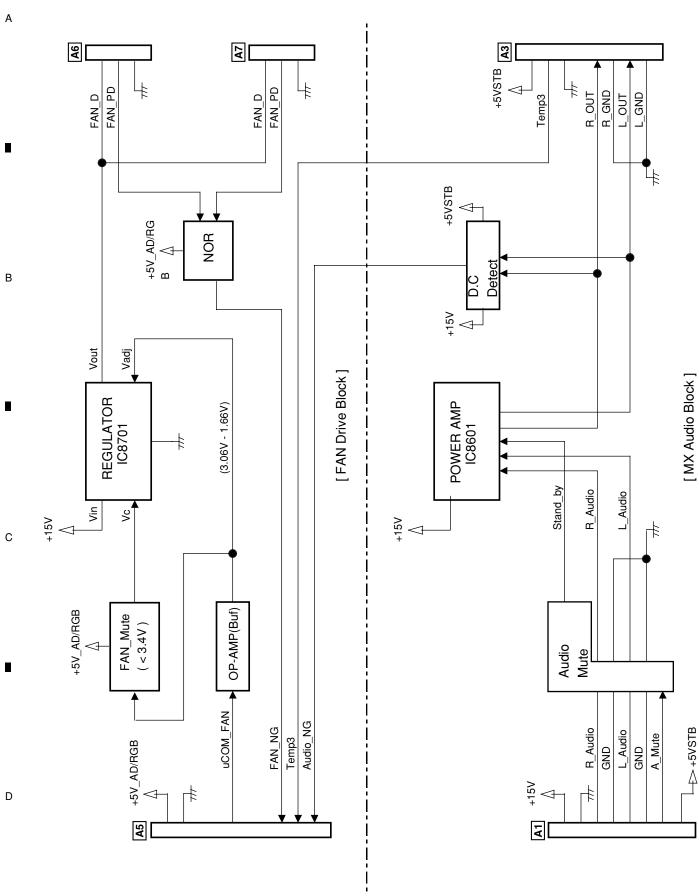
С

D

6

7

3.1.6 MX AUDIO ASSY



1

1

3

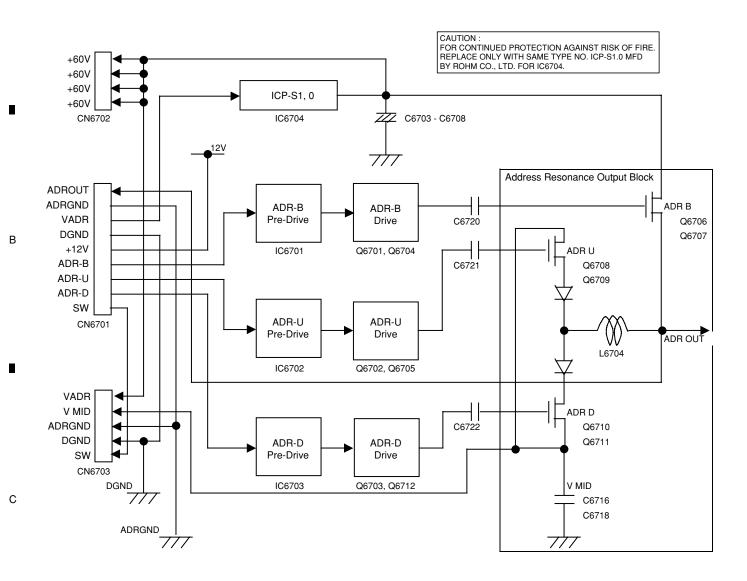
2

35

В

С

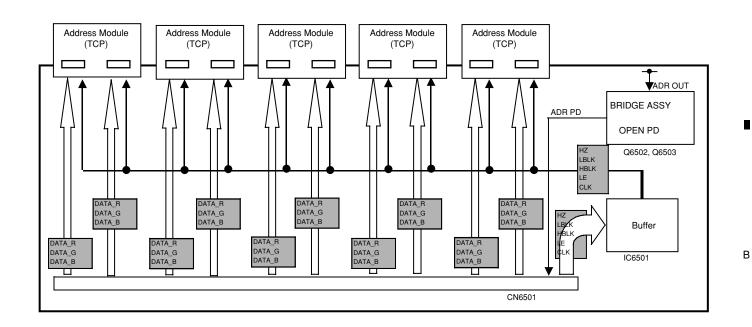
3.1.8 RESONANCE ASSY



D

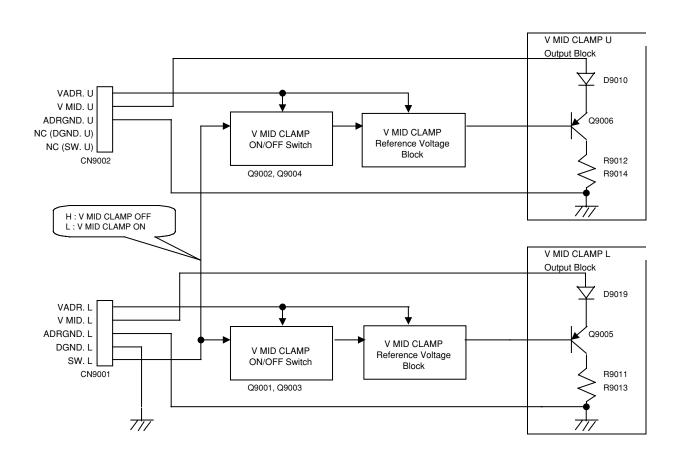
3.1.9 ADR CONNECT A, B, C and D ASSYS

1



3.1.10 V MID CLAMP ASSY

1



2

3

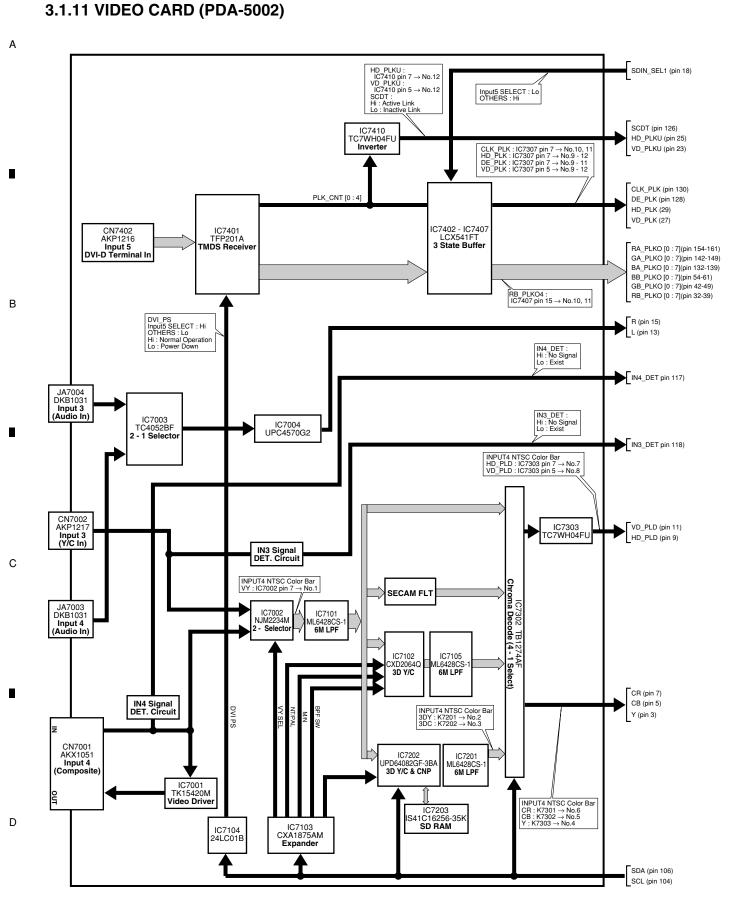
37

4

С

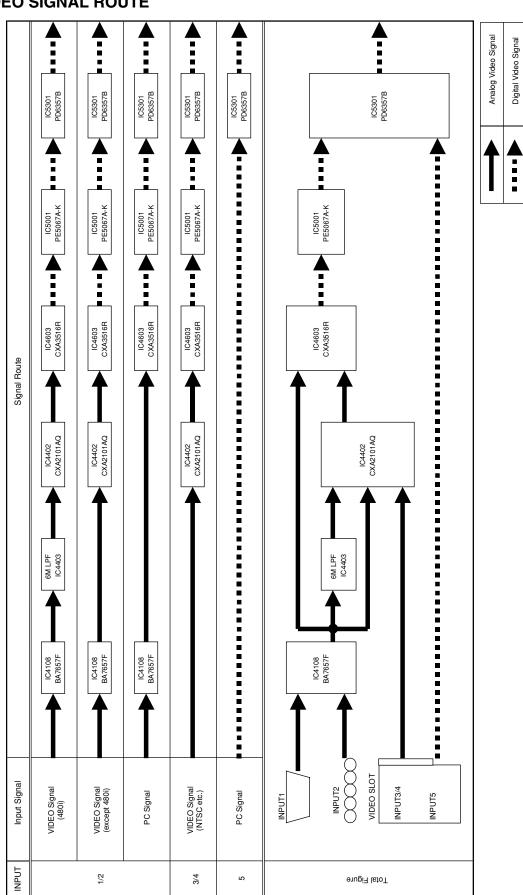
D

0.4.44.V/DEO.04.DD./DD4.5000\



3.1.12 VIDEO SIGNAL ROUTE

1



2

1

3

39

4

В

С

D

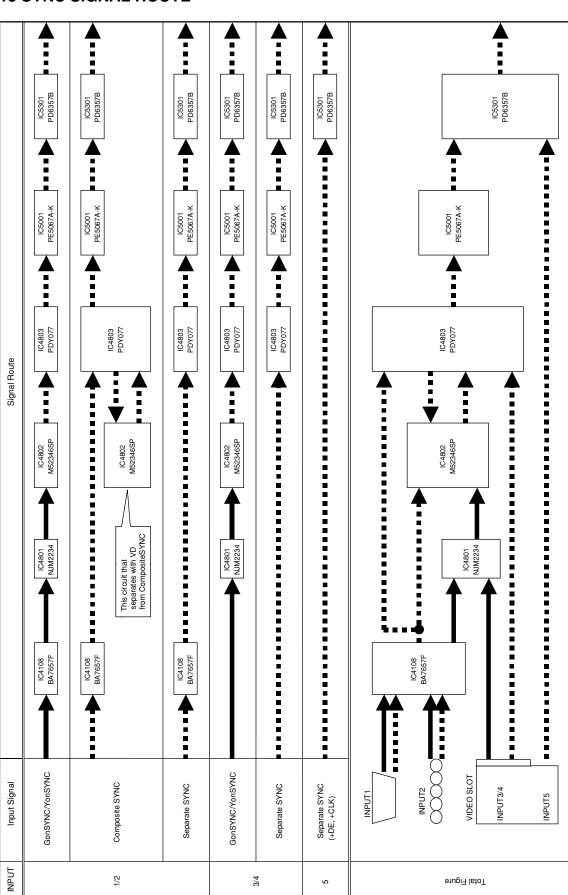
3.1.13	SYNC	SIGNAL	ROUTE

Α

В

С

D



3

Analog Video Signal

Digital Video Signal

4

40

1

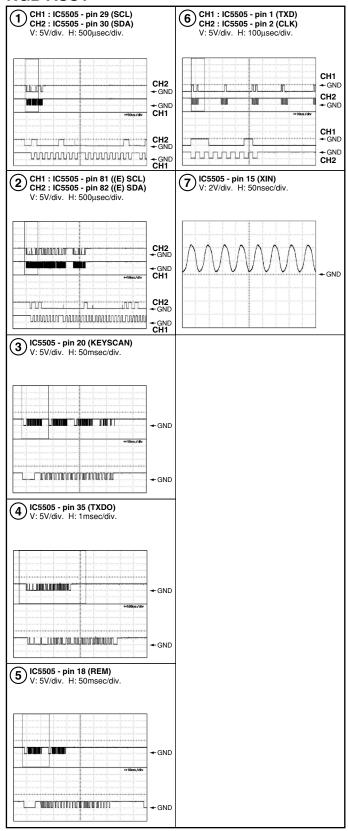
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3

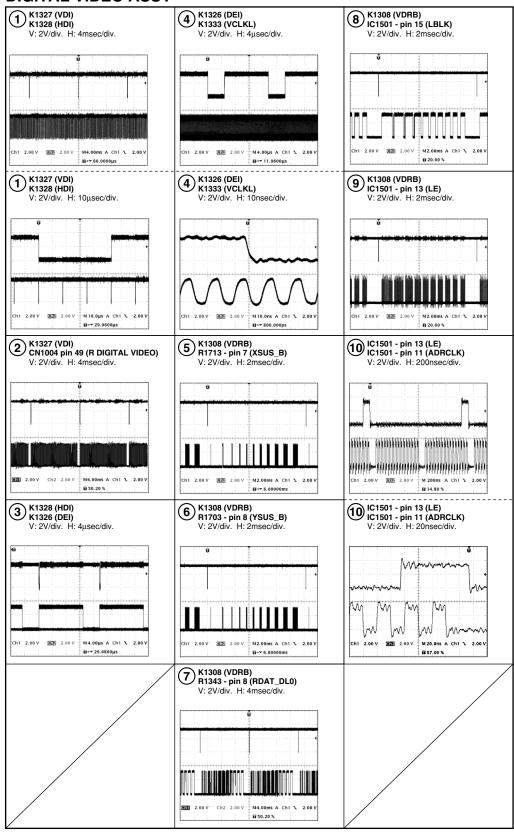
4

3.2 WAVEFORMS

RGB ASSY

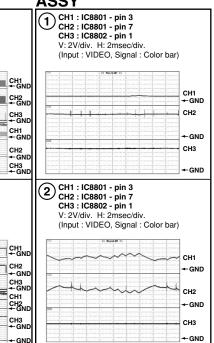


DIGITAL VIDEO ASSY



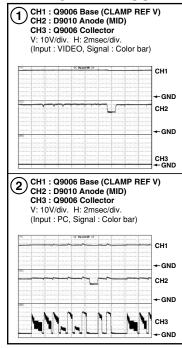
ADR CONNECT A - D RESONANCE ASSY ASSY CH1 : IC6501 - pin 8 (CLK) CH1 : IC6702 - pin 2 CH2 : IC6501 - pin 6 (LE) CH3 : IC6501 - (DATA) CH2 : IC6702 - pin 2 CH2 : IC6701 - pin 2 CH3 : IC6703 - pin 2 V· 1V/div V· 1V/div (Input : VIDEO, Signal : Color bar) (Input : VIDEO, Signal : Color bar) CH1 ← GND CH2 ← GND CH3 ← GNF CH1 H: 500nsec/div CH2 ←GND CH3 ← GND CH1 : D6706 Cathode CH1: IC6501 - pin 5 (HBLK) CH2: D6703 Cathode CH3: D6708 Cathode CH2: IC6501 - pin 3 (LBLK) CH3: IC6501 - pin 2 (HZ) (Input : VIDEO, Signal : Color bar) (Input : VIDEO, Signal : Color bar) CH1 GND н: CH2 2msec/div 2msec/div CH3 GNE CH1 H: CH2 ← GNE 3 CH1 : Q6706 Drain CH2 : Q6710 Soruse V: 10V/div (Input : VIDEO, Signal : Color bar) CH1 ← GND CH2 2msec/div GND CH1 -GNE 500nsec/di CH2 **←** GND 4 CH1 : Q6706 Drain CH2 : Q6710 Soruse (Input : PC, Signal : Color bar) CH1 2msec/div CH2 ⊢GND CH1 -GNE CH2 5 CH1 : Q6708 Drain CH2 : Q6710 Drain (Input : VIDEO, Signal : Color bar) CH1 ← GND CH2 ←GND CH1 CH2

SUB ADDRESS A, B **ASSY**

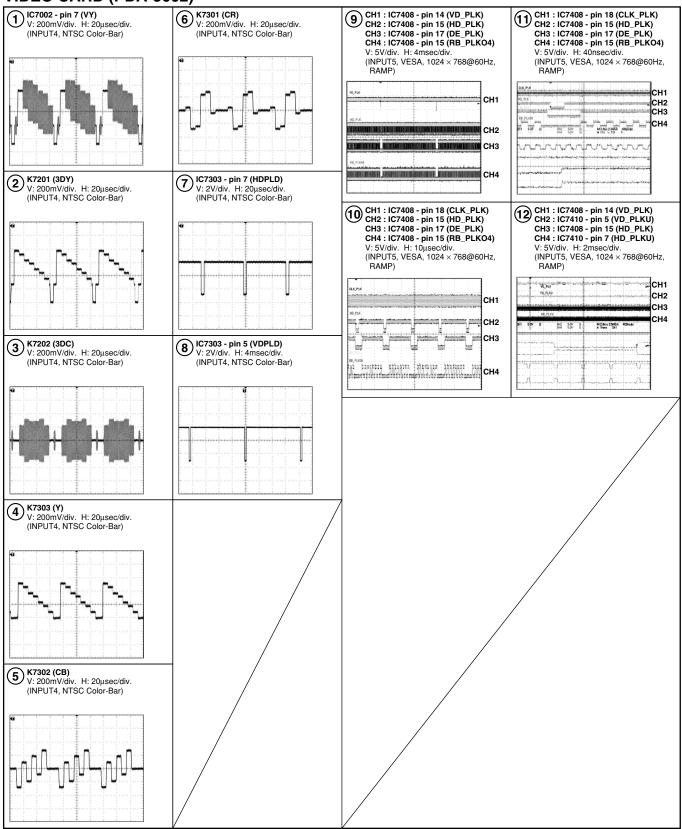


ANAMAN/VHANAN/

V MID CLAMP ASSY

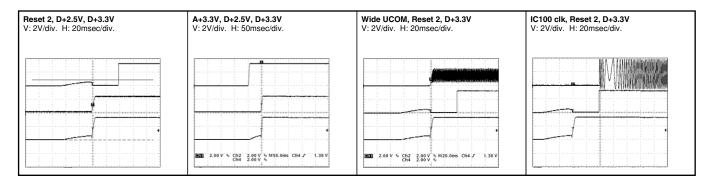


VIDEO CARD (PDA-5002)

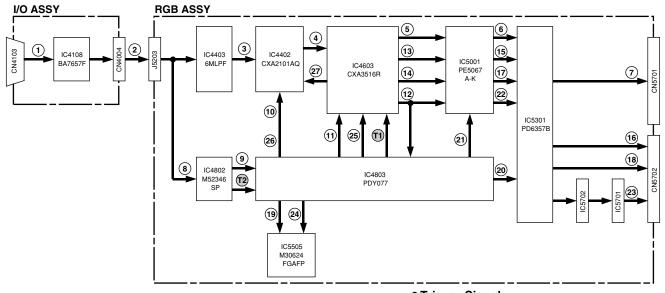


RGB VIDEO Signal Waveforms

Waveform at Power ON



Measurement Point



Trigger Signal

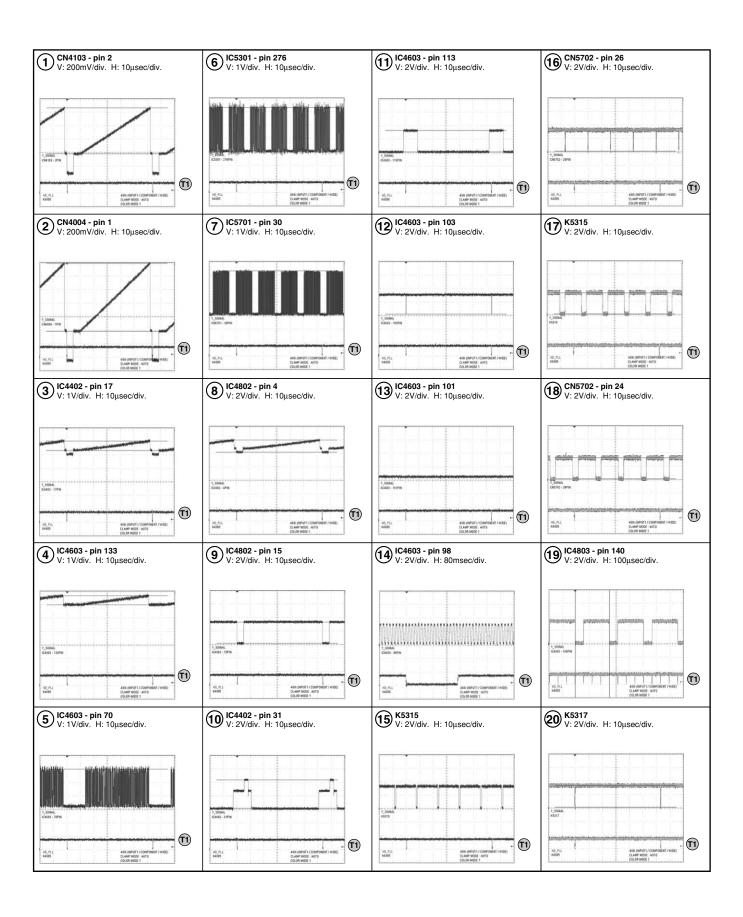
- (11) K4805 (HD_PLL) : For Horizonatal Sync. Signal
- 12 IC4802 pin 13 : For Vertical Sync. Signal

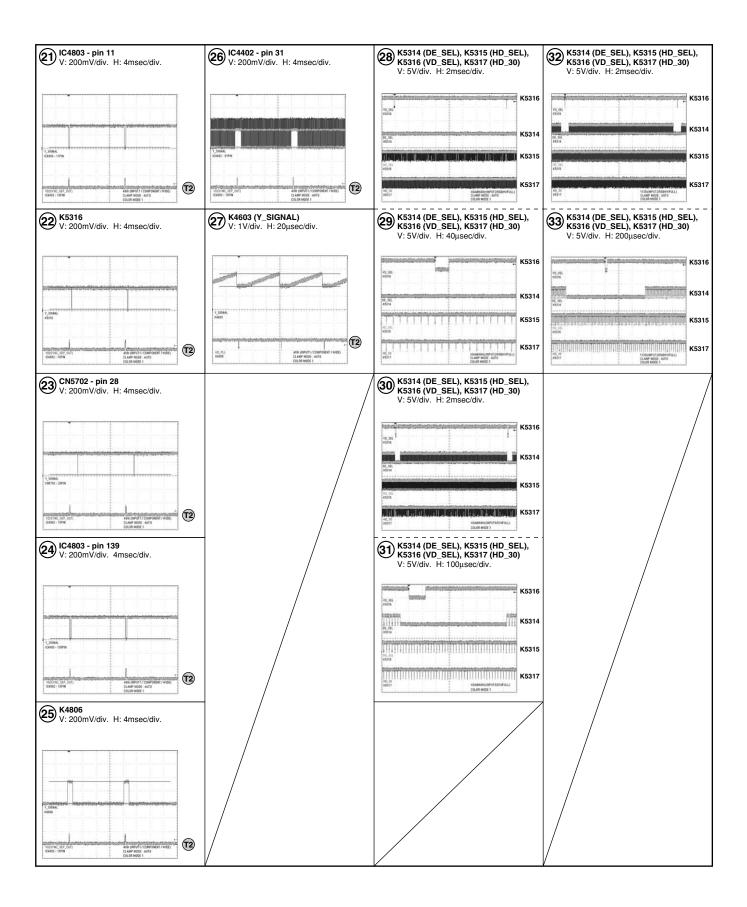
Measurement Condition

1 to 27:		28 to 29:		30 to 31 :		32 to 33 :	
Input	: INPUT 1 (Component)	Input	: INPUT 2 (RGBHV)	Input	: INPUT 5 (DVI)	Input	: INPUT 2 (RGBHV)
Input Signal	: 480i	Input Signal	: XGA@60Hz	Input Signal	: XGA@60Hz	Input Signal	: 1125i
Signal Pattern	: H RAMP	Signal Pattern	: Monoscope	Signal Pattern	: Monoscope	Signal Pattern	: Monoscope
Screen Mode	: WIDE	Screen Mode	: FULL	Screen Mode	: FULL	Screen Mode	: FULL
Clamp Mode	: AUTO	Clamp Mode	: AUTO	Clamp Mode	: AUTO	Clamp Mode	: AUTO
Color Mode	: COLOR MODE 1	Color Mode	: COLOR MODE 1	Color Mode	: COLOR MODE 1	Color Mode	: COLOR MODE 1

Information

NO.	Point	Information	Trigger Signal (CH4)	
1	CN4103 - pin 2	Synchronize with K4805 (HD_PLL)	T1	
2	CN4004 - pin 1	Synchronize with K4805 (HD PLL)	T1	
3	IC4402 - pin 17	Synchronize with K4805 (HD PLL)	T1	
4	IC4603 - pin 133	Synchronize with K4805 (HD_PLL)	T1	
5	IC4603 - pin 70	Synchronize with K4805 (HD_LL)	T1	
-	· '	, = ,	T1	
6	IC5301 - pin 276	Synchronize with K4805 (HD_PLL) and frequency is 4 times.		
7	IC5701 - pin 30	Do not synchronize with K4805 (HD_PLL)	T1	
8	IC4802 - pin 4	Synchronize with K4805 (HD_PLL)	T1	
9	IC4802 - pin 15	Synchronize with K4805 (HD_PLL)	T1	
10	IC4402 - pin 31	Synchronize with K4805 (HD_PLL)	T1	
11	IC4603 - pin 113	Synchronize with K4805 (HD_PLL)	T1	
12	IC4603 - pin 103	Synchronize with K4805 (HD_PLL)	T1	
13	IC4603 - pin 101	No output	T1	
14	IC4603 - pin 98	Clock signal that synchronizes with K4805 (HD_PLL)	T1	
15	K5315 (HD_SEL)	Synchronize with K4805 (HD_PLL) and frequency is 4 times.	T1	
16	CN5702 - pin 26	Do not synchronize with K4805 (HD_PLL)	T1	
17	K5314 (DE_SEL)	Synchronize with K4805 (HD_PLL) and frequency is 4 times.	T1	
18	CN5702 - pin 24	Do not synchronize with K4805 (HD_PLL)	T1	
19	IC4803 - pin 140	Synchronize with K4805 (HD_PLL) and frequency is 1/4 times.	T1	
20	K5317 (HD_SEL)	Synchronize with K4805 (HD_PLL)	T1	
21	IC4803 - pin 11	Synchronize with IC4802 - pin 13	T2	
22	K5316 (VD_SEL)	Synchronize with IC4802 - pin 13	T2	
23	CN5702 - pin 28	Synchronize with IC4802 - pin 13	T2	
24	IC4803 - pin 139	Synchronize with IC4802 - pin 13	T2	
25	K4806	Synchronize with IC4802 - pin 13	T2	
26	IC4402 - pin 31	Synchronize with IC4802 - pin 13	T2	
27	K4603 (Y_SIGNAL)	Synchronize with IC4802 - pin 13	T2	
	K5314 (DE_SEL)			
28	K5315 (HD_SEL)	K5314 (DE_SEL) is fixed to "L" level in the PC signal indication. K5315 (HD_SEL) and	VESTE (VD. SEL)	
20	K5316 (VD_SEL)	k 5317 (HD _ 30) synchronize with K5316 (VD_SEL).	K5316 (VD_SEL)	
	K5317 (HD_30)			
	K5314 (DE_SEL)			
	K5315 (HD_SEL)	Magnified K5316 (VD SEL) section of No. 28. K5315 (HD SEL) and K5317 (HD 30)	KE040 (VD OEL)	
29	K5316 (VD_SEL)	are the same frequency in the PC signal indication.	K5316 (VD_SEL)	
	K5317 (HD_30)			
	K5314 (DE_SEL)			
	K5315 (HD_SEL)	K5314 (DE SEL) is not fixed to "L" level in the PC signal indication by the DVI input.	1/50/0 (1/5 051)	
30	K5316 (VD_SEL)	K5314 (DE_SEL), K5315 (HD_SEL) and k 5317 (HD_30) synchronize with K5316	K5316 (VD_SEL)	
	K5317 (HD_30)	(VD_SEL).		
	K5314 (DE_SEL)			
	K5315 (HD_SEL)	Magnified K5316 (VD SEL) section of No. 30. K5314 (DE SEL), K5315 (HD SEL) and	1/= 0.16 ii i=	
31	K5316 (VD_SEL)	K5317 (HD_30) are the same frequency in the PC signal indication by the DVI input.	K5316 (VD_SEL)	
	K5317 (HD_30)			
	K5314 (DE_SEL)			
	K5315 (HD_SEL)	K5314 (DE_SEL) is not fixed to "L" level in the 1125i indication. K5314 (DE_SEL),		
32	K5316 (VD_SEL)	K5315 (HD_SEL) and k 5317 (HD _ 30) synchronize with K5316 (VD_SEL).	K5316 (VD_SEL)	
	K5317 (HD_30)			
	K5314 (DE_SEL)			
	K5315 (HD_SEL)	Magnified K5316 (VD_SEL) section of No. 32. Frequency of 2 times of K5314		
33	K5316 (VD_SEL)	(DE_SEL), K5315 (HD_SEL) and K5317 (HD_30) in the 1125i indication.	K5316 (VD_SEL)	
	K5317 (HD_30)	· · · · · · · · · · · · · · · · · · ·		
	1.0017 (112_00)			

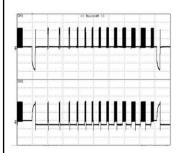




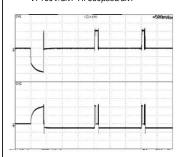
Sustain Waveforms

Sustain Waveform (1 field)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND) V: 100V/div. H: 2msec/div. ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
 - V: 100V/div. H: 2msec/div.



- Sustain Waveform (1 sub-field) ch 1: K3107 (X.PSUS) - K3201 (SUSGND) V: 100V/div. H: 500μsec/div. ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)
- V: 100V/div. H: 500µsec/div.

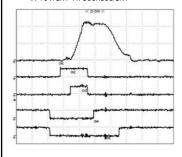


Sustain Waveform

- ch 1: K2220 (Y.PSUS) K2219 (SUSGND)
- V: 100V/div. H: 500nsec/div. ch 2: K2028 (YSUS_U) K2024 (DGND)
- V: 10V/div. H: 500nsec/div.

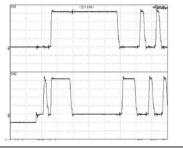
 ch 3: K2027 (YSUS_B) K2024 (DGND)

 V: 10V/div. H: 500nsec/div.
- K2029 (YSUS_D) K2024 (DGND) V: 10V/div. H: 500nsec/div
- ch 5: K2037 (YSUS_G) K2024 (DGND) V: 10V/div. H: 500nsec/div.



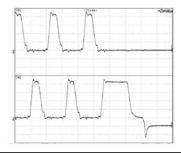
Sustain Waveform (sustain)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 50V/div. H: 5μsec/div. ch 2: K2220 (Y.PSUS) K2219 (SUSGND) V: 50V/div. H: 5µsec/div.



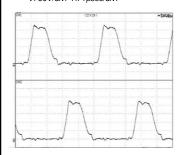
Sustain Waveform (sustain)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND) V: 50V/div. H: 2µsec/div. K2220 (Y.PSUS) - K2219 (SUSGND)
- V: 50V/div. H: 2µsec/div.



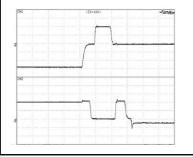
Sustain Waveform (1 field)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 50V/div. H: 1μsec/div. ch 2 : K2220 (Y.PSUS) K2219 (SUSGND) V: 50V/div. H: 1µsec/div.



Sustain Waveform (reset pulse)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 100V/div. H: 5μsec/div. ch 2 : K2220 (Y.PSUS) K2219 (SUSGND) V: 100V/div. H: 5µsec/div.

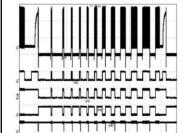


Drive Pulse Waveforms

Y Drive Pulse Control Waveform (1 field)

- ch 1: K2220 (Y.PSUS) K2219 (SUSGND)
- V: 100V/div. H: 2msec/div.

 ch 2: K2039 (YCP_MSK) K2024 (DGND)
 V: 10V/div. H: 2msec/div.
- ch 3 : K2040 (YSUS_MSK) K2024 (DGND) V: 10V/div. H: 2msec/div. ch 4: K2041 (OFS) - K2024 (DGND)
- V: 10V/div. H: 2msec/div. ch 5: K2053 (SOFT_D) K2024 (DGND)
- V: 10V/div. H: 2msec/div.

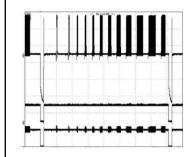


Y Drive Pulse Control Waveform (1 sub-field)

- ch 1: K2220 (Y.PSUS) K2219 (SUSGND)
- V: 100V/div. H: 50µsec/div. ch 2: K2039 (YCP_MSK) K2024 (DGND)
- V: 10V/div. H: 50μsec/div.
- ch 3: K2040 (YSUS_MSK) K2024 (DGND) V: 10V/div. H: 50usec/div
- ch 4: K2041 (OFS) K2024 (DGND)
- V: 10V/div. H: 50μsec/div. ch 5: K2053 (SOFT D) K2024 (DGND)
- V: 10V/div. H: 50µsec/div.

X Drive Pulse Control Waveform (1 field)

- ch 1: K3107 (X.PSUS) K3201 (SUSGND)
- V: 100V/div. H: 2msec/div. ch 2: K3017 (XCP_MSK) K3005 (DGND)
- V: 10V/div. H: 2msec/div. ch 3: K3015 (XSUS MSK) K3005 (DGND)
- V: 5V/div. H: 2msec/div.



5. PCB PARTS LIST

- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The
 \(\triangle \) mark found on some component parts indicates the importance of the safety factor of the part.

 Therefore, when replacing, be sure to use parts of identical designation.
 - When ordering resistors, first convert resistance values into code form as shown in the following examples.
 - Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

Mark	No. Description	Part No.	Mark No. Description Part No.
LIST	OF ASSEMBLIES		SCAN (A) ASSY
PDP-	503CMX, PDP-503MXE		SEMICONDUCTORS
NSP	SCAN FUKUGO ASSY	AWV1898	IC6201-IC6206 SN755860PJ
NSP NSP	SCAN (A) ASSY SCAN (B) ASSY	AWZ6617 AWZ6616	
NSP	X CONNECTOR (A) ASSY	AWZ6618	CAPACITORS
NSP	X CONNECTOR (B) ASSY	AWZ6619	C6201,C6202,C6212,C6213 ACG1088
NSP	BRIDGE A ASSY	AWZ6620	(0.1μF/250V) C6222,C6223,C6232,C6233 ACG1088
NSP NSP	─BRIDGE B ASSY ─BRIDGE C ASSY	AWZ6621 AWZ6622	(0.1μF/250V)
NSP	BRIDGE D ASSY	AWZ6623	C6242,C6243,C6252,C6253 ACG1088
NSP	-CLAMP A ASSY	AWZ6650	(0.1μF/250V)
NSP NSP	─CLAMP B ASSY ─CLAMP C ASSY	AWZ6651 AWZ6652	C6203.C6206.C6210.C6215.C6219
NSP	CLAMP D ASSY	AWZ6653	C6227,C6229,C6236,C6240,C6244
	27.00	7.1120000	C6246,C6255,C6259,C6260
NOD	ADDRESS FUKUGO ASSY	AWV1900	C6208,C6209,C6217,C6218,C6226
NSP NSP	ADR CONNECT A ASSY ADR CONNECT B ASSY	AWZ6626 AWZ6627	00200,00230,00239,00243,00230 00011011101030
NSP	ADR CONNECT C ASSY	AWZ6628	C6257,C6258 CCSRCH181J50
NSP	ADR CONNECT D ASSY	AWZ6629	C6204,C6205,C6207,C6214,C6216
NSP	⊢RESONANCE ASSY	AWZ6691	C6224,C6235,C6237,C6248,C6249 CCSRCH390J50
	X DRIVE ASSY	AWV1901	C6251,C6254,C6256,C6262-C6266 CCSRCH390J50
	Y DRIVE ASSY	AWV1902	C6211,C6221,C6228,C6241,C6247 CKSRYF104Z16
	SLOT CONNECTOR ASSY	AWZ6634	C6261 CKSRYF104Z16
	Y DRIVE ASSY	AWZ6645	
	SUB ADDRESS A ASSY SUB ADDRESS B ASSY	AWZ6689 AWZ6690	RESISTORS
	COD ADDITIEGO D AGOT	AVV20030	R6207,R6209,R6222,R6228,R6232 RAB4C221J R6239 RAB4C221J
	DIGITAL VIDEO ASSY	AWV1903	Other Resistors RS1/16S J
	RGB VIDEO ASSY	AWV1904	0711500
	- I/O ASSY	AWZ6631	OTHERS
	└- RGB ASSY	AWZ6632	CN6201 15P CONNECTOR AKP1218 K6202,K6212,K6219,K6225,K6231 AKX9002
	MX FUKUGO ASSY ├─CONTROL ASSY	AWV1905 AWZ6633	TEST PIN K6239,K6244 TEST PIN AKX9002
	-SP OUT L ASSY	AWZ6635	N0239,N0244 TEST PIN ANA9002
	—SP OUT R ASSY	AWZ6636	
	SIDE KEY ASSY	AWZ6637	
	─KEY CONNECTOR ASSY ─THERMAL SENSOR ASSY	AWZ6638 AWZ6639	SCAN (B) ASSY
	-MX LED ASSY	AWZ6642	SEMICONDUCTORS
	-IR ASSY	AWZ6643	IC6001-IC6006 SN755860PJ
	└MX AUDIO ASSY	AWZ6644	
	V MID CLAMP ASSY	AWV1934	CAPACITORS
	5000		C6001,C6002,C6011,C6012 ACG1088
PDA-		AWV1906	(0.1μF/250V) C6021,C6022,C6031,C6032 ACG1088
	VIDEO SLOT ST1 ASSY	AVVVIBUD	(0.1μF/250V)

Mark No. Description	Part No.	Mark No. Description	Part No.
C6041,C6042,C6051,C6052 (0.1μF/250V)	ACG1088	OTHERS CN6431 PH CONNECTOR	B4B-PH-SM3
C6004,C6005,C6009,C6013,C6015 C6026,C6027,C6038,C6040,C6044 C6048,C6054,C6058,C6059	CCSRCH151J50 CCSRCH151J50 CCSRCH151J50		
C6007,C6008,C6014,C6019,C6025 C6028,C6035,C6039,C6046,C6047	CCSRCH181J50 CCSRCH181J50	BRIDGE C ASSY	
C6056,C6057 C6003,C6006,C6017,C6018,C6020	CCSRCH181J50 CCSRCH390J50	SEMICONDUCTORS D6441,D6442	D1FL20U(S)
C6023,C6024,C6029,C6033,C6034 C6037,C6043,C6045,C6049,C6053 C6055,C6060,C6062-C6066	CCSRCH390J50 CCSRCH390J50 CCSRCH390J50	CAPACITORS C6441,C6442 (0.1μF/100V)	ACG1098
C6010,C6016,C6030,C6036,C6050 C6061	CKSRYF104Z16 CKSRYF104Z16	OTHERS CN6441 PH CONNECTOR	B4B-PH-SM3
RESISTORS R6007,R6012,R6021,R6028,R6032 R6040	RAB4C221J RAB4C221J	BRIDGE D ASSY	
Other Resistors	RS1/16S□□□J	SEMICONDUCTORS	
OTHERS CN6001 15P CONNECTOR	AKP1218	D6451,D6452	D1FL20U(S)
K6001,K6012,K6018,K6025,K6031 TEST PIN K6038,K6044 TEST PIN	AKX9002 AKX9002	CAPACITORS C6451,C6452 (0.1μF/100V)	ACG1098
		OTHERS CN6451 PH CONNECTOR	B4B-PH-SM3
(CONNECTOR (A) ASSY			
RESISTORS R6401	RS1/16S0R0J	CLAMP A ASSY	
10401	1101/10001100	SEMICONDUCTORS	D451 0011/0)
CONNECTOR (B) ASSY		D6461,D6462	D1FL20U(S)
RESISTORS R6451	RS1/16S0R0J	CAPACITORS C6461,C6462 (0.1μF/100V)	ACG1098
		OTHERS CN6461 PH CONNECTOR	B4B-PH-SM3
BRIDGE A ASSY			
SEMICONDUCTORS D6421,D6422	D1FL20U(S)	CLAMP B ASSY	
CAPACITORS C6421,C6422 (0.1μF/100V)	ACG1098	SEMICONDUCTORS D6471,D6472	D1FL20U(S)
OTHERS CN6421 PH CONNECTOR	B4B-PH-SM3	CAPACITORS C6471,C6472 (0.1μF/100V)	ACG1098
		OTHERS CN6471 PH CONNECTOR	B4B-PH-SM3
BRIDGE B ASSY		ONO THEODINESTOR	2 12 1 11 OMO
SEMICONDUCTORS D6431,D6432	D1FL20U(S)	CLAMP C ASSY	
CAPACITORS	• •	SEMICONDUCTORS	
C6431,C6432 (0.1μF/100V)	ACG1098	D6481,D6482	D1FL20U(S)
		CAPACITORS C6481,C6482 (0.1μF/100V)	ACG1098

Mark No. Description	Part No.	Mark No. Description	Part No.
OTHERS		RESISTORS	
CN6481 PH CONNECTOR	B4B-PH-SM3	R6618-R6622,R6624,R6626,R6628 R6630,R6631,R6633-R6637,R6639 R6641,R6643,R6645,R6647 R6616 Other Resistors	RAB4C100J RAB4C100J RAB4C100J RAB4C473J RS1/16S
CLAMP D ASSY		G	
SEMICONDUCTORS D6491,D6492	D1FL20U(S)	OTHERS CN6601 55P CONNECTOR	AKM1202
CAPACITORS			
C6491,C6492 (0.1µF/100V)	ACG1098	ADR CONNECT C ASSY	
OTHERS		SEMICONDUCTORS	
CN6491 PH CONNECTOR	B4B-PH-SM3	IC6801 Q6802 Q6803 D6801	TC74VHC541FT 2SC2712 2SK209 DA227
ADR CONNECT A ASSY			
SEMICONDUCTORS		COILS	ATIMOS
IC6501 Q6502	TC74VHC541FT 2SC2712	L6801,L6802 (22μH/0.11A) CAPACITORS	ATH1081
Q6503 D6501	2SK209 DA227	C6811-C6820 (330pF/100V) C6831,C6833,C6834 (47μF/6.3V) C6836-C6838	ACG1094 ACH1341 CCSRCH121J50
COILS L6501,L6502 (22µH/0.11A)	ATH1081	C6806-C6810,C6821-C6825,C6832 C6835	CKSRYF104Z16 CKSRYF104Z16
CAPACITORS		RESISTORS	
C6511-C6520 (330pF/100V) C6531,C6533,C6534 (47μF/6.3V) C6536-C6538 C6506-C6510,C6521-C6525,C6532 C6535	ACG1094 ACH1341 CCSRCH121J50 CKSRYF104Z16 CKSRYF104Z16	R6818-R6822,R6824,R6826,R6828 R6830,R6831,R6833-R6837,R6839 R6841,R6843,R6845,R6847 R6816 Other Resistors	RAB4C100J RAB4C100J RAB4C100J RAB4C473J RS1/16S
RESISTORS		OTHERS	
R6518-R6522,R6524,R6526,R6528 R6530,R6531,R6533-R6537,R6539 R6541,R6543,R6545,R6547 R6516 Other Resistors	RAB4C100J RAB4C100J RAB4C100J RAB4C473J RS1/16S□□□J	CN6801 55P CONNECTOR	AKM1202
Other resistors		ADR CONNECT D ASSY	
OTHERS		SEMICONDUCTORS	
CN6501 55P CONNECTOR	AKM1202	IC6901 Q6902 Q6903 D6901	TC74VHC541FT 2SC2712 2SK209 DA227
ADR CONNECT B ASSY		0011.0	
SEMICONDUCTORS IC6601	TC74VHC541FT	COILS L6901,L6902 (22μH/0.11A)	ATH1081
Q6602 Q6603 D6601	2SC2712 2SK209 DA227	CAPACITORS C6911-C6920 (330pF/100V) C6931,C6933,C6934 (47μF/6.3V)	ACG1094 ACH1341
COILS L6601,L6602 (22µH/0.11A)	ATH1081	C6936-C6938 C6906-C6910,C6921-C6925,C6932 C6935	CCSRCH121J50 CKSRYF104Z16 CKSRYF104Z16
CAPACITORS		RESISTORS	
C6611-C6620 (330pF/100V) C6631,C6633,C6634 (47μF/6.3V) C6636-C6638 C6606-C6610,C6621-C6625,C6632 C6635	ACG1094 ACH1341 CCSRCH121J50 CKSRYF104Z16 CKSRYF104Z16	R6918-R6922,R6924,R6926,R6928 R6930,R6931,R6933-R6937,R6939 R6941,R6943,R6945,R6947 R6916 Other Resistors	RAB4C100J RAB4C100J RAB4C100J RAB4C473J RS1/16S□□□J

Mark	No. D	escription	Part No.	Mark No	. Description	Part No.
OTHE	RS			OTHERS	}	
	CN6901	55P CONNECTOR	AKM1202	K3	001,K3003,K3004,K3008,K30 ⁻ TEST PIN	10 AKX9002
				K3	012-K3015,K3017,K3018 TEST PIN	AKX9002
RES	ONANC	E ASSY		CN	30P CONNECTOR	KF050HA30L
_	CONDUC					
	IC6704 (1. IC6701-IC	A/50V)	ICP-S1.0 TND301S	[X SUS E	BLOCK]	
		3705,Q6712	2SB1132	SEMICO	NDUCTORS	
	Q6701-Q6 Q6710,Q6		2SD1664 FS30ASJ-2		3102	HCPL-M611
	Q07 10,Q0	,,,,,	1 000/100 2		3200,IC3201	STK795-460
	Q6706-Q6		FX20ASJ-2		3101 3103,IC3104,IC3106,IC3107	TC74ACT541F7 TND301S
	,	703,D6704,D6706-D6708 710,D6717,D6718	1SS355 D1FL20U(S)		3110,IC3113	TND301S
	D6711-D6	5714	SPX-62S	100	3109	LIDOZOLOST
	D6702,D6	705,D6716	UDZ15B		3109 3117	UPC78L05T 2SJ181L
COIL					3116,Q3119,Q3120	2SJ522
JUIL	L6704	CHOKE COIL	ATH1111		3101 3103-Q3107,Q3109-Q3115	2SK2503 FS16VS-9
	20704	STONE SOIL	***************************************			
CAPA	CITORS				1124-Q3127 1123	FS16VS-9 FS2AS-14A
		718 (1.00F)	ACE1159		1122,Q3128	FS7VS-14A
		i721 (0.01μF/100V) 0068F/100V)	ACG1101 ACG1102		3102,Q3118	HN1B04FU
		5708 (56μF/80V)	ACH1347	D3	1119	1SS184
	C6702,C6		CEHV101M16	D3	108,D3124,D3125,D3130,D31	33 1SS355
	C6701		CEHV470M16		101,D3102,D3117,D3126,D31	
		711,C6713	CKSRYF104Z16		200,D3202,D3203,D3205 207,D3208,D3210-D3215	D1FL40 D1FL40
					120,D3127-D3129,D3135,D31	
RESIS	STORS		D04/40000000	2011.0		
	All Resisto	ors	RS1/16S□□□J	COILS	006 0007	ATLI1110
OTHE	RS			L3	206,L3207 RADIAL LEAD INDU	ATH1112 CTOR
•	CN6701	23P CONNECTOR	AKP1221		201,L3204 CHOKE COIL	ATH1117
	CN6702 CN6703	PH CONNECTOR PH CONNECTOR	B4B-PH-SM3 B5B-PH-SM3	L3:	202,L3205,L3210,L3211 CHOKE COIL	ATH1118
					101	LFEA100J
					107,L3108 103	LFEA101J LFEA470J
X DR	RIVE AS	SY		LO	100	LI LA4700
X LO	GIC BLC	OCK1		CAPACI	TORS	
•	CONDUC	-			205,C3206,C3212,C3213 (1.5	
J_17111	IC3003		PE1012A		:225,C3226 (1.5µF) :131,C3139,C3143 (0.1µF/630)	ACE1160 V) ACG1092
	IC3004		TC74ACT540FT	C3	223,C3224 (100pF/500V)	ACG1100
	IC3001,IC	3008	TC74ACT541FT	C3	132 (47μF/350V)	ACH1346
COIL	Loos		15544001	C3	200-C3202,C3207-C3209 (330μF/315V)	ACH1348
	L3001		LFEA100J		214-C3221	CCSRCH331J5
СДРД	CITORS				112,C3133,C3203,C3210 102,C3107,C3115,C3204,C32	CEHAT101M16 11 CEHAT101M25
~~i ~	C3005		CEHAT470M16			
		003,C3004,C3006	CKSRYF104Z50		101	CEHAT221M25
					104,C3106,C3134,C3141 135	CEHAT470M16 CEHAT470M25
	STORS				103,C3105,C3108,C3109,C31	
RESIS						
RESIS	R3009-R3		RAB4C0R0J	C3	113,C3114,C3117,C3130,C31	40 CKSRYF104Z50
RESIS	R3001,R3	8012 8003,R3026,R3029 8005,R3030,R3033	RAB4C0R0J RAB4C470J RAB4C472J		:113,C3114,C3117,C3130,C31 :147	40 CKSRYF104Z50 CKSRYF104Z50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
RESIS	STORS	•			R3802		RS1/16S5601F
		R3184,R3187 (15Ω)	ACN1156		R3738		RS1/2S102J
		R3114,R3121,R3122,R3126	RAB4C100J		R3800	,H3801 1 (1kΩ)	RS1/2S823J ACP1089
		R3140,R3141	RAB4C100J			Resistors	RS1/16S□□□J
		R3217,R3230,R3234,R3237 R3242,R3245	RS1/10S184J RS1/10S184J				
	N3240,F	13242,113243	H31/1031640	OTHE	ERS		
	R3250-F		RS1/16S3300F		T3701	VRN TRANSFORMER	ATK1153
	R3134,F	R3163	RS1/2S100J			SCREW	PMB30P060FNI
	R3103 R3109		RS1/2S102J RS1/2S2R2J				
	R3102		RS1/2S561J				
				V DE	RIVE A	V22 <i>I</i>	
	R3215,F R3228,F		RS1MMF101J RS1MMF102J				
	R3202,F		RS1MMF563J	[Y DF	RIVE LO	OGIC BLOCK]	
	R3178,F		RS2MMF121J	SEMI	COND	UCTORS	
	VR3200	-VR3203 (1kΩ)	ACP1089		IC2006	3	PE1013A
	Other R	acietore	RS1/16S□□□J		IC2007		TC74ACT540FT
	Otherin	63131013	1131/103			,IC2003-IC2005 ,Q2102	TC74ACT541FT HN1C01FU
OTHE	RS				D2101	,02102	1SS355
•		SPACER	AEH1049				
	K3102-k	K3104 TEST PIN	AKX9002	COIL			
		-KN3114 GROUND PLATE			L2001		LFEA100J
	CN3101 CN3102		KM250MA13 KM250MA3				
	0140102	31 1 200	KIVIZOVIAO	CAP	ACITOF	RS	
					C2101		CEHAT100M50
					C2103		CEHAT1R0M50
[X DD	CON E	BLOCK]			C2003	,C2004,C2005,C2007,C2008	CEHAT470M16 CKSRYF104Z50
SEMI	CONDU	ICTORS				,C2102,C2104	CKSRYF104Z50
	IC3712		AN1431M				
	IC3701		MIP161	RESI	STORS	3	
	IC3702-	IC3704	TLP181(GR)			-R2018	RAB4C0R0J
	Q3701 Q3800		2SC2712 HN1A01FU			,R2002,R2005,R2011	RAB4C470J
	40000				R2037	,R2038 ,R2036,R2039,R2040	RAB4C470J RAB4C472J
	D3710,E		1SS355			Resistors	RS1/16S□□□J
	D3705,E D3702	03706	D1FL20U(S) EC8FS6				
		D3709,D3713	RD110P	OTHE	ERS		
	D3703		UDZ18B		CN200		AKM1201
	D0707		LIDZCE CD		K2001-	-K2005,K2009,K2010,K2013	AKX9002
	D3707		UDZS5.6B		K2021	TEST PIN ,K2027-K2029,K2037	AKX9002
COIL						TEST PIN	
OOIL	L3701	RADIAL LEAD INDUCTOR	ATH1110		1/0000	KOOAA KOOFO TEOT DIN	ALCV0000
					2101	-K2041,K2053 TEST PIN SENSOR	AKX9002 AXX1057
CAPA	CITOR	S			2.0.	SCREW	BMZ20P040FMC
	C3701 (22μF/315V)	ACH1345			NUT	NB20FMC
		47μF/350V)	ACH1346				
	C3704	C3711,C3714	CEHAT101M16 CEHAT101M25				
	C3700,C	23711,03714	CEHAT331M16	[Y DF	RIVE SI	JS BLOCK]	
				-		-	
	C3705	20707 00700 00740	CKSQYF104Z50	SEIVII		UCTORS	LIODI MOLL
	C3703,C	C3707,C3708,C3710	CKSRYB104K16 CKSRYB104K16			2,IC2208 5,IC2214	HCPL-M611 STK795-460
	007 10,0	20, 10	S.KOITI B TOTICIO		IC2201	•	TC74ACT541FT
RESIS	STORS				IC2203	3,IC2204,IC2210,IC2212	TND301S
	R3732		RS1/16S1001F		IC2213	3,IC2216,IC2217	TND301S
	R3806		RS1/16S1802F		IC2205	5,IC2209	UPC78L05T
		R3704,R3706-R3717	RS1/16S1803F			-Q2205	2SJ522
	R3805 R3731		RS1/16S2702F RS1/16S3900F		Q2201		2SK2503
	110/01		1101/10003001			-Q2221,Q2226-Q2228 ,Q2233	FQB34N20 FQB34N20
					QZZ3Z	,4220	I QDO4INZU

Mark	No. Description	Part No.	Mark	No.	Description	Part No.
	Q2210-Q2212	FS16VS-9	OTHE	RS	<u> </u>	
	Q2209	HN1B04FU	OIIIL	110	SPACER	AEH1049
	D2225 D2202,D2204	1SS184 1SS226		K2211	K2214-K2217 TEST PIN	AKX9002
	D2202,D2204 D2211	1SS355			1-KN2210 GROUND PLATE	
	52211	100000		CN220		KM250MA15
	D2215,D2228	D1FL20U(S)		CN220	2 3P PLUG	KM250MA3
	D2201,D2203,D2205,D2208,D2210	D1FL40				
	D2212,D2214,D2216,D2221-D2223 D2226,D2227,D2239,D2243	D1FL40 D1FL40				
	D2209	DF20L60	[Y DR	IVE S	CAN BLOCK]	
			-		UCTORS	
	D2206,D2207	UDZ15B	SEIVIIC			LIODI MO11
0011	•				1,IC2502,IC2505,IC2510 2-IC2514,IC2516,IC2525	HCPL-M611 HCPL-M611
COIL		A.T. 1444.0			3,IC2504,IC2506	TC74ACT540FT
	L2207 RADIAL LEAD INDUCTOR	ATH1110 ATH1112				
	L2213,L2214 RADIAL LEAD INDUCTO		COILS	3		
	L2206,L2211 CHOKE COIL	ATH1117		L2501	-L2503	LFEA100J
	L2208,L2212,L2215,L2216	ATH1118				
	CHOKE COIL		CAPA	CITO	RS	
	L2210	LFEA100J			,C2527	CEHAT220M2D
	L2203,L2205	LFEA101J		C2502		CEHAT221M16
	L2201,L2204	LFEA470J			,C2525 ,C2503-C2505,C2507,C2508	CEHAT470M16 CKSRYF104Z50
					,C2515-C2517,C2519,C2530	CKSRYF104Z50
CAPA	ACITORS				,	
	C2228,C2230,C2231,C2250-C2252 (1.5μF)	ACE1160	RESIS			DADAOAAA
	C2209,C2210 (0.1µF/630V)	ACG1092			,R2504 Resistors	RAB4C101J RS1/16S□□□J
	C2233,C2248 (100pF/500V) C2211 (47µF/350V)	ACG1100 ACH1346		Other	100000	
	02211 (47μ1/330V)	A0111340	OTHE	RS		
	C2216,C2217,C2219,C2234-C2236 (330µF/315V)	ACH1348	• • • • • • • • • • • • • • • • • • • •		1,CN2502 15P CONNECTOR	AKM1200
	C2253-C2260 C2221,C2225,C2226,C2246	CCSQCH331J50 CEHAT101M16				
	C2204,C2227,C2237,C2240,C2247					
			[Y DR	IVE D	D-CON BLOCK]	
	C2202	CEHAT221M25	SEMIC	COND	UCTORS	
	C2232 C2218,C2224,C2229	CEHAT331M2A CEHAT470M16		IC271	5-IC2717	AN1431M
	C2212,C2214	CEHAT470M25		IC2709		HCNR201
	C2201,C2203,C2205,C2208,C2213				3,IC2710,IC2718	M5223AFP
		01/07//5/04750		IC271		MIP0223SC MIP161
	C2220,C2222,C2223,C2238,C2239 C2241,C2242	CKSRYF104Z50 CKSRYF104Z50		10270	•	WIII 101
	02241,02242	ONOTTT 104200		IC270		MIP301
RESI	STORS				2,IC2703,IC2705-IC2707	TLP181(GR)
	R2235,R2273,R2291,R2305,R2315	RAB4C100.I			2-IC2714 ,Q2703	TLP181(GR) 2SC2712
	R2317,R2342	RAB4C100J		Q2704		HN1A01FU
	R2253,R2256,R2270,R2283,R2332					
	R2338,R2354,R2355	RS1/10S184J			,D2717,D2718,D2732,D2734	1SS355
	R2358-R2361	RS1/16S3300F			,D2737 ,D2706,D2707,D2715,D2726	1SS355 D1FL20U(S)
	R2263,R2264	RS1/2S100J		D2704		D1FL20U(S)
	R2203	RS1/2S102J		-	,D2714,D2727	D1FL40
	R2209	RS1/2S2R2J		· ·		D. 50.
	R2202	RS1/2S561J		D2711		D1FS4
	R2278,R2303	RS1MMF101J		D2725 D2733		EC8FS6 RD110P
	R2233,R2234	RS1MMF102J		D2724		U1ZB330
	R2274,R2275	RS1MMF221J		D2713		U1ZB36
	R2298,R2299 R2277	RS2MMF4R7J RS3PMFR47J		D2740		UDZ12B
	R2277 R2276	RS3PMFR56J			.D2716	UDZ3.6B
	· •				,D2731	UDZ33B
	VR2201-VR2204 (1kΩ)	ACP1089		D2703	,D2710	UDZ36B
	Other Resistors	RS1/16S□□□J		D2720	,D2730,D2739	UDZS5.6B

Mark	No.	Description	Part No.	Mark	1	No.	Description	Part No.
COILS				SUE	3	ADD	RESS A ASSY	
CAPA	CITOF C2701, C2706, C2709,	RADIAL LEAD INDUCTOR RS C2735 (22μF/315V) C2725,C2737 C2718,C2720,C2739,C2745		SEM		IC8801 IC8803 Q8801	,Q8802 3-Q8805,Q8808	M5223AFP TC74VHC74FT 2SA1163 2SC2712 2SK209
	C2708 C2740 C2704 C2715 C2746 C2723, C2712	C2751	CEHAT101M2A CEHAT101M2C CEHAT221M25 CEHAT331M16 CEHAT331M25 CEHAT470M16 CEHAT471M35	COIL	.S	D8806 D8808 D8804		1SS355 DA227 UDZ27B UDZS5.1B
	C2721,	C2730	CKSRYB103K50 CKSRYB104K16 CKSRYB104K16 CKSRYB104K16 CKSRYB104K16 CKSRYB471K50 CKSRYF104Z50	CAP	Α¢	CITOI C8806 C8822 C8804	RS ,C8808	ATH10/4 ATH1081 CCSRCH101J50 CEHV100M16 CEHV100M35 CEHV470M16 CEVNP2R2M35
RESIS	R2735, R2780 R2715,		RS1/16S1000F RS1/16S1103F RS1/16S1201F	RESI		C8802 C8820	2,C8803,C8805,C8809-C8817 1,C8821	
	R2787 R2766 R2785 R2777, R2776		RS1/16S1302F RS1/16S1501F RS1/16S1503F RS1/16S1802F RS1/16S2702F RS1/16S3002F RS1/16S3002F	HESI		R8806 R8858 R8864 R8828 R8826	,R8807,R8837,R8838,R8841 ,R8829,R8846 ,R8827,R8839,R8840 ,R8859	RS1/16S1002D RS1/16S1202D RS1/16S1802F RS1/16S2202D RS1/16S4701D RS1/16S4702F RS1/16S5602F
	R2783 R2734, R2779 R2773 R2784	R2736	RS1/16S4701F RS1/16S4702F RS1/16S5102F RS1/16S5601F RS1/16S5602F	ОТНІ	EF	R8801 R8803 Other I	,R8802 R8805 Resistors	RS1/2S1R5J RS1/2S2R2J RS1/16S□□□J
			RS1/16S6801F RS1/16S9102F RS1/2S102J RS1/2S561J RS1/2S823J			CN880 CN880 CN880	1 PH CONNECTOR	AKM1205 S3B-PH-SM3 S8B-PH-SM3
	VR270	2,VR2703 (1kΩ) 1 (2.2kΩ) Resistors	RS3LMF272J ACP1089 ACP1090 RS1/16S		IC	OND IC8901	RESS B ASSY UCTORS 1,IC8902,IC8904	M5223AFP
OTHE	T2702 T2703 T2701	SMD TRANSFORMER VH TRANSFORMER VOFS TRANSFORMER SCREW	ATK1150 ATK1151 ATK1152 PMB30P060FNI			Q8903 Q8906 D8901	,Q8902 8-Q8905,Q8908 6-D8903,D8909 8,D8907	TC74VHC74FT 2SA1163 2SC2712 2SK209 1SS355 DA227 UDZ27B UDZS5.1B
SLO	T COI	NNECTOR ASSY		COIL	S			
OTHE	CN810		AKP1219 AKP1220 ANK1664				CHOKE COIL (100μH/0.45A) ,L8903 COIL (22μH/0.11A)	ATH1074 ATH1081

Mark No. Description	Part No.	Mark No. Description	Part No.
CAPACITORS		CAPACITORS	
C8906 C8922 C8904 C8901,C8908 C8907	CCSRCH101J50 CEHV100M16 CEHV100M35 CEHV470M16 CEVNP2R2M35	C1123,C1124 C1101 C1102,C1109,C1110,C1112-C1116 C1129-C1132 C1117,C1121	CCSRCH7R0D50 CEV101M4 CKSRYB102K50 CKSRYB102K50 CKSRYB103K50
C8902,C8903,C8905,C8909-C8917 C8920,C8921	CKSRYF104Z16 CKSRYF104Z16	C1120 C1103-C1108,C1111,C1118,C1119 C1122,C1125-C1128	CKSRYB472K50 CKSRYF104Z16 CKSRYF104Z16
RESISTORS R8906,R8907,R8937,R8938,R8941 R8958 R8964 R8928,R8929,R8946 R8926,R8927,R8939,R8940 R8933,R8959 R8932 R8901,R8902	RS1/16S1002D RS1/16S1202D RS1/16S1802F RS1/16S2202D RS1/16S4701D RS1/16S4702F RS1/16S5602F RS1/2S1R5J	RESISTORS R1104,R1107,R1110,R1113,R1114 R1116,R1121,R1124,R1127,R1129 Other Resistors OTHERS K1101-K1105,K1107,K1108 TEST PIN	
R8903-R8905 Other Resistors	RS1/2S1R5J RS1/2S2R2J RS1/16S□□□J	X1101 CERAMIC RESONATOR (25MHz)	R ASS1160
OTHERS CN8903 23P CONNECTOR CN8901 PH CONNECTOR CN8902 PH CONNECTOR	AKM1205 S3B-PH-SM3 S8B-PH-SM3	[MODULE UCOM BLOCK] SEMICONDUCTORS IC1204 IC1208	24LC04B(I)SN PST9246N
DIGITAL VIDEO ASSY		IC1202 IC1201 IC1205	TC74VHC08FT TC74VHC21FT TC74VHC541FT
[INTERFACE BLOCK] SEMICONDUCTORS IC1001-IC1008	TC74VHC541FT	IC1203 IC1206 D1201,D1202	TC74VHCT541AFT TC7W126FU 1SS355
FILTERS F1001-F1006 EMI FILTER CAPACITORS	ATF1194	CAPACITORS C1213,C1243-C1245 C1235,C1236 C1225,C1232	CCSRCH470J50 CCSRCH7R0D50 CEV470M6R3
C1001-C1008	CKSRYF104Z16	C1201-C1203,C1206-C1211 C1214-C1216,C1218,C1219	CKSRYB102K50 CKSRYB102K50
RESISTORS R1044 R1001-R1007,R1036,R1063-R1069 R1008-R1017,R1019,R1020,R1027 R1032,R1034,R1035,R1037,R1038	RAB4C470J RAB4C470J	C1223,C1224,C1226,C1227,C1229 C1237,C1238,C1241,C1242,C1247 C1234 C1233 C1204,C1205,C1212,C1217	
R1040-R1043,R1048,R1049 R1051-R1054 Other Resistors	RAB4C470J RAB4C470J RS1/16S□□□J	C1221,C1222,C1228,C1230,C1231 C1239,C1240,C1246,C1248-C1250	CKSRYF104Z16 CKSRYF104Z16
OTHERS CN1003,CN1004 50P CONNECTOR K1001 TEST PIN CN1001 PH CONNECTOR		RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors	RAB4C101J RAB4C103J RAB4C123J RAB4C473J RS1/16S
[PANEL UCOM BLOCK]		OTHERS X1201 CERAMIC RESONATOR	R ASS1159
SEMICONDUCTORS IC1101 IC1103 IC1102 Q1101,Q1103 D1101	HD64F2328VF NC7SZ08P5 PST9228N DTC143EK AEL1171	CN1203 PH CONNECTOR CN1201,CN1202 8P PLUG	B3B-PH-SM3 CKS3130

Mark No.	Description	Part No.	Mark No. Description	Part No.
[DIGITAL BL	OCK]		[D-D CONVERTER BLOCK]	
SEMICONDU	CTORS		SEMICONDUCTORS	
IC1802 IC1704 IC1301,I IC1703 IC1501,I	C1401 C1502,IC1601,IC1602	FS781BZB NC7SZ08P5 PD6358A PE5064A TC74VCX541FT	Q1902,Q1905,Q1907 Q1903 Q1901,Q1904,Q1906 D1903-D1906,D1911,D1912 D1908	2SC2712 DTC143EK HN1C01FU 1SS355 HZU2.2B
IC1702,I IC1803 IC1701 D1301-D		TC74VHC541FT TC74VHC74FT TC74VHCT541AFT 1SS226	D1902,D1909 D1907 D1901	UDZ3.6B UDZS5.1B UDZS6.8B
FILTERS			CAPACITORS	05)/00014/0
	1304,F1501-F1505 EMI FILTER	ATF1194	C1904,C1906,C1912 C1901-C1903,C1905,C1907-C1911	CEV220M16 CKSRYF104Z16
F1601-F	1605 EMI FILTER	ATF1194	RESISTORS	
CAPACITORS	S		R1935,R1936 R1937	RS1/2S680J RS2LMF390J
C1807 C1802		CCSRCH271J50 CEV100M16	Other Resistors	RS1/16S□□□J
C1806 C1504-C C1303-C C1323-C C1407-C	21322,C1406,C1422,C1711 21508,C1604-C1608,C1712 21305,C1307-C1321 21336,C1403-C1405 21421,C1423-C1436,C1501	CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16	OTHERS K1901-K1906 TEST PIN 1901 DC- DC CONVERTER CN1901 PH CONNECTOR	AKX9002 AXY1052 B13B-PH-SM3
	1601,C1603,C1701-C1710 1803-C1805	CKSRYF104Z16 CKSRYF104Z16	I/O ASSY	
DE01070D0			[I/O BLOCK]	
R1307,R R1321,R R1410-F R1421,R R1501,R	11517,R1606,R1622 11310-R1315,R1317,R1318 11322,R1326-R1344,R1407 11415,R1417,R1418 11422,R1426-R1444 11514,R1607,R1627,R1701	RAB4C101J RAB4C220J RAB4C220J RAB4C220J RAB4C220J RAB4C470J RAB4C470J	SEMICONDUCTORS IC4003 IC4002 IC4004 IC4005,IC4006 IC4001	PQ05DZ11 PQ09DZ11 PQ12DZ11 PQ3DZ13 TA79L05F
R1551,R Other Re		RS1/2S680J RS1/16S□□□J	CAPACITORS C4027 C4012,C4020,C4024	CEHAT100M50 CEHAT101M10
OTHERS CN1701 CN1501,	50P CONNECTOR ,CN1502,CN1504,CN1505	AKM1201 AKM1202	C4008 C4001,C4004,C4005,C4009,C4013 C4016,C4017	CEHAT101M16 CEHAT470M16 CEHAT470M16
CN1601,	55P CONNECTOR ,CN1602,CN1604,CN1605 55P CONNECTOR	AKM1202	C4002,C4003,C4006,C4007 C4010,C4011,C4014,C4015 C4018,C4019,C4022,C4023	CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16
K1301,K	1302,K1308,K1311-K1314	AKX9002	C4026	CKSRYF105Z10
K1316,K	TEST PIN 1321,K1324,K1326-K1331 TEST PIN	AKX9002	RESISTORS R4001,R4003,R4004,R4007	RS1MMF1R0J
K1333,K	1501,K1502,K1601,K1602 TEST PIN	AKX9002	R4002	RS1MMF8R2J
X1801	1729 TEST PIN CRYSTAL RESONATOR (50.000MHz)		OTHERS CN4002 15P PLUG	KM200NA15
CN1301	CN1603 PH CONNECTOR, 8P PLUG	CKS3130		
CN1702	30P CONNECTOR	KF050HA30L	[RGB I/O BLOCK] SEMICONDUCTORS IC4110 IC4108 IC4107,IC4111	24LCS21A BA7657F LT1399CS
			IC4104 IC4103,IC4105	TA7630P TC4052BF

<u>Mark</u>		Part No.	Mark		Description	Part No.
	IC4109	TC74VHCT541AFT UPC4570G2		Q4412 Q4404		HN1A01FU HN1B04FU
	IC4101,IC4102 Q4114	2SC2412K		Q4404 Q4410		HN1C01FU
	Q4102	DTA143EK		D4401		1SS226
	Q4103,Q4117	DTC143EK				
	Q4104-Q4106,Q4108,Q4111,Q4112	HN1B04FU	CAPA	CITO	RS	
	Q4101,Q4113	HN1C01FU			,C4412,C4458	CEHAT100M50
	Q4115,Q4116	UMY1N		C4405		CEHAT101M16
	D4111	1SS184		C4456	.C4451-C4453	CEHAT470M16 CKSQYB105K10
	D4105-D4107,D4114-D4116 D4119,D4120	1SS226 1SS226			,C4409,C4410,C4428,C4429	CKSQYB474K16
	·			C4421	.C4432.C4434-C4436.C4445	CKSQYB474K16
	D4121 D4110	1SS352 RD6.8MB		C4448		CKSQYB474K16
	D4108,D4109,D4112,D4113	UDZS5.6B			-C4423,C4426	CKSRYB104K16
	D4122,D4123	UDZS5.6B		C4408	,C4414-C4418,C4420,C4424	CKSRYB222K50 CKSRYF104Z16
	•••			04411	,04414-04410,04420,04424	CR3N1F104Z10
WIT		10111000			,C4430,C4433,C4438-C4444	CKSRYF104Z16
	S4101	ASH1029		C4446 C4457	,C4447,C4449,C4450,C4455	CKSRYF104Z16 CKSRYF104Z16
:ΔΡΔ	CITORS			04407		OROTTI 104210
· · · · · ·	C4144,C4145,C4155,C4156	CCSRCH220J50	RESI	STORS	3	
	C4109,C4117	CCSRCH221J50			,R4425,R4426	RAB4C103J
	C4166	CEHAT100M50		R4483		RS1/16S1003F
	C4137,C4161,C4169 C4120,C4124,C4135,C4136	CEHAT101M10 CEHAT470M16		R4476 R4448		RS1/16S1004F RS1/16S2202F
	O-120,O-124,O-100,O-100	OLI IAT T/ UIVITU		R4437		RS1/16S2202F
	C4139,C4140,C4143,C4150 C4153,C4154,C4157,C4174-C4176	CEHAT470M16 CEHAT470M16		R4494		RS1/16S3901F
	C4167	CEHAT4R7M50		R4482		RS1/16S4701F
	C4101,C4104,C4106,C4110,C4111	CKSQYB105K10		R4455		RS1/16S4702F
	C4114,C4118,C4127,C4165	CKSQYB105K10		R4489		RS1/16S5601F
	C4170,C4171	CKSQYB105K10		Other	Resistors	RS1/16S□□□J
	C4129,C4130,C4133,C4134,C4142	CKSRYB103K50				
	C4149,C4151,C4152,C4177-C4179	CKSRYB103K50				
	C4108,C4116 C4146	CKSRYB222K50 CKSRYB471K50	[AD/F	PLL/AN	IP BLOCK]	
	04140	OKOKT B47 TKOO	SEMI	COND	UCTORS	
	C4125,C4126	CKSRYB472K50		IC4603	3	CXA3516R
	C4107,C4119,C4121-C4123,C4128	CKSRYF104Z16		IC4605		NJM072BM-E
	C4147,C4158-C4160,C4162-C4164 C4168,C4180-C4182	CKSRYF104Z16 CKSRYF104Z16		IC4604		TC74HC4066AF TC74LCX125FT
				IC4601 IC4602		TC74LCX125F1 TC7WH04FU
ESIS	STORS					
	R4188-R4190	RS1/16S1001F		Q4601 Q4608	,Q4602	2SC2412K 2SK208
	R4271-R4273 R4185,R4186,R4213,R4214	RS1/16S1101F		Q4608 Q4607		DTC124EK
	R4185,R4186,R4213,R4214 R4165,R4166,R4180,R4210-R4212	RS1/16S2201F RS1/16S75R0F		Q4604	-Q4606	HN1B04FU
	R4262,R4263	RS1/2S750J		Q4603		HN1C01FU
	Other Resistors	RS1/16S□□□J		D4601	-D4605	1SS355
THE	:De		CAPA	CITO	RS	
1116	CN4101,CN4102	AKN1069	·· •	C4680		CCCCH220J50
	STEREO MINI JACK			C4623		CCSRCH101J50
	CN4103,CN4104 D-SUB SOCKET			C4615	.C4669	CCSRCH220J50 CCSRCH221J50
	CN4105 BNC SOCKET	AKX1055		C4620	,	CCSRCH331J50
				C4604	.C4607.C4614.C4638	CEHAT101M10
	ACCV			C4651	,C4652,C4656,C4668	CEHAT101M10
	ASSY			C4622 C4675		CFTLA105J50 CKSQYB184K16
4 A T	RIX BLOCK]			C4662		CKSRYB102K50
VIA I	CONDUCTORS			C4609	.C4619.C4627.C4628	CKSRYB104K16
	CONDUCTORS				. 070 1 3. 0402 1 . 04020	VIVOLULIO 10/4/V [D]
	IC4402	CXA2101AQ				CKSRYB104K16
	IC4402 IC4403	ML6426CS-1		C4634 C4610	,C4635,C4639,C4640 ,C4647	CKSRYB104K16 CKSRYB105K6R3
	IC4402			C4634 C4610 C4601	,C4635,C4639,C4640	

Mark		Description	Part No.	Mark	<u> </u>	No.	D	escription	Part No.
		,C4625,C4629-C4633 ,C4637,C4641-C4646	CKSRYF104Z16	OTH	EI	RS			
	C4648	-C4637,C4641-C4646 -C4650,C4653-C4655 -C4661,C4663,C4677-C4679	CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16			K4801	,K48	802,K4805,K4806 TEST PIN	AKX9002
DEOL			CKSh1F104Z10			K4809 CN480	,	B10 TEST PIN 8P PLUG	AKX9002 CKS3130
RESIS	STORS		DAD40101 I						
		,R4623,R4625,R4629,R4632 ,R4639,R4641,R4643,R4647	RAB4C101J RAB4C101J						
	R4653	,R4657	RAB4C101J	[IP B	3L	ОСК	ı		
	R4635 R4630		RN1/16SE3001D RS1/16S2201F	-		_	•	TORS	
	114000		1101/10022011	SEIVI	_	IC510			MS82V16520-8GA
		,R4715	RS1/16S2204F			IC510	,	7100	PE5066A
	R4626 R4631		RS1/16S2701F RS1/16S3301F			IC500	1		PE5067A
	VR470	1 (4.7kΩ)	ACP1091	040		OITO	D C		
	Other I	Resistors	RS1/16S□□□J	CAP		CITO C5017		101	CCCDCI 1990 IEO
						C5017	,	121	CCSRCH220J50 CEHAT101M10
						C5015	,C50		CEHAT221M6R3
[SYN	C CON	TROL BLOCK]				C5001 C5101		005,C5007-C5013	CKSRYF104Z16 CKSRYF104Z16
SEMI	COND	UCTORS				03101	-03	120	OROTTI 104210
	IC4802)	M52346SP	RES	IS	TORS	S		
	IC4801		NJM2234M			All Res	sisto	rs	RS1/16S□□□J
	IC4803 Q4806		PDY077E 2SC2412K			_			
		,Q4809	DTC124EK	OTH	EI				
	Q4803		HN1A01FU			5002 5001		HEAT SINK FOR IC HEAT SINK L FOR IC	ANH1574 ANH1576
	Q4807		HN1B04FU			3001		TIEAT OINICET OTTIO	ANTIO
	Q4802		HN1C01FU						
		,D4808 ,D4802	1SS184 1SS226	IDIC	ıŦ	A1 C	- 1 6	ECT DI OCKI	
		,		-				ECT BLOCK]	
FILTE	RS			SEM	_	_		TORS	T07 // 0\/T4 // ET
	F4801	F4802 EMI FILTER	ATF1194			IC520	1-10:	5207	TC74LCX541FT
СДРД	CITO	RS.		CAP	Α	CITO	RS		
O 2 11 2		.C4864	CCSRCH151J50			C5201	-C5	207	CKSRYF104Z16
		,C4805	CCSRCH220J50				_		
	C4821 C4804	,C4833	CCSRCH221J50 CCSRCH470J50	RES		TORS			DAD40400 I
		,C4810,C4823	CEHAT100M50			R5213 R5201		212,R5215,R5217	RAB4C103J RAB4C470J
	C4010	,C4844	CEHAT101M10			Other			RS1/16S□□□J
		,C4806,C4815	CEHAT470M16						
		,C4822	CEHAT4R7M50	ОТН				40D 1101101NO WIDE	4 D.VO700
	C4816 C4829		CKSQYB105K10 CKSRYB472K50			J5203 J5204		10P HOUSING WIRE 11P HOUSING WIRE	ADX2706 ADX2707
	0.020					CN520		120P PLUG	AKM1203
		,C4808,C4811,C4813,C4814 .C4820.C4830.C4831.C4836	CKSRYF104Z16 CKSRYF104Z16						
		,C4842,C4843,C4850,C4861	CKSRYF104Z16						
	C4860		CKSRYF105Z10	[IC30	O E	BLOC	: K1		
DECK	STOR			_			_	TORS	
RESIS	STORS		DAD40101 I	OLIVI		IC5302			MS82V16520-8GA
	R4913	,R4818,R4835,R4915	RAB4C101J RAB4C102J			IC530	,		PD6357B
	R4809		RAB4C152J		_				
	R4825	.R4943	RAB4C471J RAB4C472J	CAP		CITO		200	0511474048440
	117000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				C5301	,	308 307,C5309-C5322,C5324	CEHAT101M10 CKSRYF104Z16
	R4864		RS1/16S1802F			23302		,00000 00011,00014	2
	R4865 R4868		RS1/16S2702F RS1/16S4702F	RES	IS	TORS	S		
		Resistors	RS1/16S□□□J			All Res	sisto	rs	RS1/16S□□□J

Mark No.	Description	Part No.	Mark No. Description	Part No.
OTHERS			CAPACITORS	
	4-K5317 TEST PIN I CRYSTAL RESONATOF (100.00MHz)	AKX9002 A ASS1161	C5601 C5615,C5616 C5611 C5612 C5604,C5606,C5608,C5610,C5613	CCSRCH102J50 CCSRCH7R0D50 CKSRYB472K50 CKSRYF103Z50 CKSRYF104Z16
[MAIN UCC	OM BLOCK]		C5617-C5619	CKSRYF104Z16
SEMICONE	OUCTORS		RESISTORS	
IC551 IC551	4,IC5509 2 1	24LC64(I)SN 74VHCT00AMTC LM50CIM3 M5223AFP	R5603,R5604 Other Resistors	RAB4C103J RS1/16S□□□J
Q550°	3 1 6,IC5507	PST9246N TC74VHC541FT TC74VHCT541AFT TC7W126FU 2SJ461 DTA143EK	X5601 CERAMIC RESONATOR (25MHz)	R ASS1160
Q330 <i>i</i>	2,03003	DIAI43LK	[DIGITAL I/F BLOCK]	
Q5504		HN1A01FU	SEMICONDUCTORS IC5701 IC5702	TC7WH123FU TC7WH74FU
C5512 C5526 C5545 C5528	2,C5513,C5521,C5534 6,C5527	CCSRCH220J50 CCSRCH7R0D50 CEHAT100M50 CEHAT470M16 CKSRYB102K50	D5701 CAPACITORS C5703	1SS352 CCSRCH471J50
C5529 C5539 C5529 C5529 C5502	9-C5531,C5536,C5537 5,C5538,C5539	CKSRYB102K50 CKSRYB221K50 CKSRYB472K50 CKSRYF103Z50	C5701,C5702 RESISTORS R5701-R5707,R5709,R5712-R5719 R5721 R5730 Other Resistors OTHERS	RAB4C101J RS1/16S1003F RS1/16S□□□J
R5535 R5504	3,R5509,R5510 5 4,R5526	RAB4C101J RAB4C103J RAB4C473J	CN5701,CN5702 50P CONNECTOR	AKM1201
R5569 R557		RS1/16S1001F RS1/16S1800F	MX AUDIO ASSY	
R5566 R5566	3	RS1/16S3001F RS1/16S5101F RS1/16S□□□J	[MX AUDIO BLOCK] SEMICONDUCTORS IC8601	BA5417
OTHERS CN55 K550	06 30P PLUG I,K5502,K5508-K5510,K5512 TEST PIN	AKM1204 AKX9002	Q8602 Q8603,Q8605,Q8607 Q8606 Q8601	2SA1037K 2SC2412K DTC143EK HN1B04FU
K5515 X550	5,K5516,K5518 TEST PIN	AKX9002 ASS1159	Q8604	RN1901
CN55	01,CN5502 8P PLUG	CKS3130	L8602,L8603 AF CHOKE COIL L8601 CHIP CHOKE COIL	ATH-059 ATH9003
SEMICONE IC560 IC560 IC560 IC560	1 4 3	HD64F2328VF NC7SZ08P5 PST9228N TC7SH32FU TC7WH74FU	CAPACITORS C8602,C8617 C8606,C8607 C8610 C8605,C8613,C8614 C8609,C8615,C8622	CEAT101M16 CEAT101M25 CEAT221M16 CEAT470M35 CEAT471M25

Mark	No D	escription	Part No.	Mark	No	Description	Part No.
	C8612.C8	-	CKSQYF105Z16		STORS		
	C8616,C8 C8625 C8623,C8	3621 3624	CKSRYB103K50 CKSRYB222K50 CKSRYB473K50	KESI	R8006	lesistors	RAB4C102J RS1/16S□□□J
	C8601,C8	3608	CKSRYF103Z50	OTHE	:DC		
RESI	R8633,R8 R8625,R8 R8624,R8 Other Res	8632 8631	RD1/2MMF100J RD1/2MMF152J RD1/4MUF100J RS1/16S□□□J	OTHE	CN8001 CN8003	4,CN8005 6P MINI DIN SOCKET	AKN1070 AKP1213 AKP1215 B6B-PH-SM3
	Other nes	SISTOIS					
OTHE	RS						
	8551	REMOTE RECEIVER SCREW	GP1UM26RK PMZ30P080FMC	SP C	UT L	ASSY	
		00.1211		SEMI	CONDL	JCTORS	
				02	IC8151	7010110	LM50CIM3
[EAN	DDIVE B	OCK1			IC8152		M5223AFP
-	DRIVE B	-			Q8151		HN1A01FU
SEMI	CONDUC	TORS	74)///070044470	COIL	8		
	IC8703 IC8702		74VHCT00AMTC M5223AFP	COIL	_	.8152 CHOKE COIL	ATH1073
	IC8701 Q8702		PQ20WZ11 2SC2712	CADA	CITOR	96	
	Q8701		HN1A01FU	CAP	C8154	13	CCSRSL221J50
040	OITODO				C8162		CEAT470M16
CAPA	COTORS		CEAT100ME0		C8159	^01E2	CKSRYB103K50
	C8703 C8704,C8	3707,C8711	CEAT100M50 CEAT101M16		C8151,0 C8155	00133	CKSRYB332K50 CKSRYB472K50
	C8708,C8	3709,C8712	CEAT470M35				
	C8706,C8 C8705	3710	CKSRYF104Z16 CKSRYF105Z10		C8157,0 C8158,0		CKSRYF104Z16 CKSRYF105Z10
DE0:					C8152		CKSRYF473Z50
RESI	STORS	747 D0700	DC4/4004004E	RESIG	STORS		
	R8715-R8	3717,R8720	RS1/16S1001F RS1/16S3001F		R8153.I		RD1/2MMF100J
	R8707		RS1/16S5101F		R8164		RS1/16S1001F
	R8712 R8710		RS1/16S8200F RS3LMF2R7J		R8160 R8165		RS1/16S1800F RS1/16S3001F
					R8159		RS1/16S5101F
	Other Res	sistors	RS1/16S□□□J		Other R	tesistors	RS1/16S□□□J
OTHE	RS				- tiloi 11		
•	CN8704,C	CN8705 CONNECTOR 3P		OTHE			
	CN8703	PH CONNECTOR	B6B-PH-SM3		CN8151 CN8152	_	AKE1041 B6B-PH-SM3
CON	TROL /	ASSY					
SEMI	CONDUC	CTORS		SPC	DUIK	ASSY	
	IC8001		DS14C232CM	COIL	S		
	IC8002		TC74HC00AF		L8176,L	.8177 CHOKE COIL	ATH1073
	Q8002 Q8001		2SC2712 HN1A01FU	0404	CITO	16	
	Q8003		RN1901	CAPA	COLTOR	15	CCCDCI 004 IE0
	D8009,D8	2010	1SS355		C8179 C8176,0	C8178	CCSRSL221J50 CKSRYB332K50
	D8009,D8		UDZ15B		C8180	-	CKSRYB472K50
					C8177		CKSRYF473Z50
COIL				RESIG	STORS		
	L8001		LCTA221J3225	ILSK	R8178,I		RD1/2MMF100J
045	OITOSS				,	lesistors	RS1/16S□□□J
CAPA	COOOL		CEAT1DOMEO				
	C8001,C8	3002,C8005,C8006 3010	CEAT1R0M50 CEAT470M16	OTHE			
	C8004,C8	3007,C8008	CKSRYB103K50		CN8176		AKE1041 B3B-PH-SM3
	C8009		CKSRYB472K50		U140177	THOUNINEDICIT	DOD I II OWO

Mark No. Description	Part No.	Mark No. Description	Part No.
SIDE KEY ASSY		IR ASSY	
SWITCHES		SEMICONDUCTORS	
S8251-S8261 OTHERS	ASG1088	Q8551 D8552 D8551	2SC2712 1SS226 1SS355
CN8251 8P FFC CONNECTOR	AKM1207	CAPACITORS C8551 C8553	CEV470M6R3 CKSQYB472K50
KEY CONNECTOR ASSY		C8552 C8554	CKSRYB103K50 CKSRYF104Z16
SEMICONDUCTORS			
IC8301 Q8301 D8301,D8303 D8302	PD5719A 2SC2712 1SS355 RD3.0MB	RESISTORS All Resistors	RS1/16S□□□J
CAPACITORS		V MID CLAMP ASSY	
C8303 C8304 C8301,C8302,C8305 RESISTORS	CEAT2R2M50 CKSRYB103K50 CKSRYB472K50	SEMICONDUCTORS Q9003,Q9004 Q9005,Q9006 Q9001,Q9002	2SA1162 2SB950A 2SC2712
All Resistors	RS1/16S□□□J	D9001-D9008 D9009,D9010	1SS355 D1FL20U(S)
OTHERS CN8302 8P FFC CONNECTOR	AKM1207	D9011,D9012	UDZ27B
X8301 CERALOCK (3.84MHz) CN8301 PH CONNECTOR	ASS1162 B4B-PH-SM3	CAPACITORS C9001,C9002,C9005,C9006 (0.01μF/100V) C9003,C9004	ACG1101 CKSRYF104Z16
THERMAL SENSOR ASSY		RESISTORS	
SEMICONDUCTORS IC8351 IC8352	LM50CIM3 M5223AFP	R9006 R9007-R9010 R9005 R9011-R9014 Other Resistors	RS1/16S1002D RS1/16S2202D RS1/16S6801D RT10PZ680K RS1/16S□□□J
CAPACITORS C8356 C8354 C8351,C8355 C8352,C8353	CEV470M6R3 CKSRYB103K50 CKSRYF104Z16 CKSRYF105Z10	OTHERS 9001 HEAT SINK L CN9001, CN9002 PH CONNECTOR SCREW	ANH1602 R B5B-PH-SM3 BBZ30P080FMC
RESISTORS R8354,R8358 Other Resistors	RS1/16S1001F RS1/16S□□□J	VIDEO SI OT ST1 ASSV	
		VIDEO SLOT ST1 ASSY [VIDEO I/O BLOCK]	
MX LED ASSY		SEMICONDUCTORS	
SEMICONDUCTORS D8501 OTHERS	AEL1170	IC7002 IC7003 IC7001 IC7004 Q7001,Q7002,Q7006,Q7007	NJM2234M TC4052BF TK15420M UPC4570G2 2SC2412K
CN8501 PH CONNECTOR	S3B-PH-SM3	Q7004,Q7005 D7001-D7004,D7007-D7010 D7005,D7006	HN1C01FU 1SS226 1SS355

Mark No. Description	Part No.	Mark No. Description	Part No.
CAPACITORS		[3D Y/C BLOCK]	
C7002,C7006 C7003,C7012,C7015 C7004,C7007,C7010,C7011,C7014 C7013,C7016 C7017,C7020	CEANP470M25 CEAT100M50 CEAT220M50 CEAT4R7M50 CKSQYB105K10	SEMICONDUCTORS IC7203 IC7201 IC7202	IS41C16256-35K ML6428CS-1 UPD64082GF-3BA
C7009 C7022,C7023,C7025,C7026 C7001,C7005,C7008,C7018,C7019 C7021,C7024	CKSRYB103K50 CKSRYB222K50	Q7201-Q7203,Q7206,Q7209,Q7211 Q7208 Q7205 Q7207	2SA1037K 2SC2412K DTC124EK HN1B04FU
		COILS	
RESISTORS All Resistors OTHERS	RS1/16S□□□J	L7207,L7209 FERRITE BEAD L7205 L7201 L7202	ATX1008 LCTA4R7J2520 LCYA120J2520 LCYA220J2520
CN7002 4P DIN SOCKET CN7001 BNC SOCKET JA7003,JA7004 2P PIN JACK 7005,7006 SCREW TERMINAL	AKP1217 AKX1051 DKB1031 VNE1949	CAPACITORS C7202 C7201,C7205 C7204,C7246,C7247 C7224	CCSRCH100D50 CCSRCH150J50 CCSRCH180J50 CCSRCH391J50
[YC SEPA BLOCK]		C7210	CCSRCH470J50
SEMICONDUCTORS IC7104 IC7103 IC7102 IC7101,IC7105 Q7108,Q7109	24LC01B CXA1875AM CXD2064Q ML6428CS-1 2SA1037K	C7236 C7208 C7245 C7249 C7227,C7237	CCSRCH471J50 CCSRCH560J50 CEAT100M50 CEAT101M25 CEAT220M50 CKSQYB105K10
Q7101,Q7106 Q7107 Q7102-Q7104 D7102,D7103	2SC2412K HN1A01FU HN1B04FU 1SS355	C7223,C7225 C7220,C7254 C7214,C7215,C7219,C7221,C7222 C7228-C7234,C7238,C7239	CKSRYB103K50 CKSRYB104K16 CKSRYF104Z16 CKSRYF104Z16
COILS		C7241,C7242,C7250,C7251	CKSRYF104Z16
L7102,L7103 L7101	LCYA270J2520 LCYA470J2520	RESISTORS All Resistors	RS1/16S□□□J
CAPACITORS		OTHERS	
C7114 C7107 C7108 C7102 C7101,C7103,C7104,C7116	CCSRCH102J50 CCSRCH220J50 CCSRCH470J50 CCSRCH560J50 CEAT220M50	K7201,K7202 TEST PIN X7201 CRYSTAL RESONATOR (20MHz)	AKX9002 R ASS1143
C7110,C7133	CEAT221M16	ICHDOMY DEC BI OCKI	
C7105,C7130 C7109,C7131	CKSQYB105K10 CKSRYB104K16	[CHROMA DEC BLOCK]	
C7113 C7106,C7111,C7112,C7117,C7118	CKSRYB223K50	SEMICONDUCTORS IC7301 IC7302	BA7655AF TB1274AF
C7120-C7129,C7132	CKSRYF104Z16	IC7303 Q7301,Q7302 Q7303-Q7306	TC7WH04FU 2SA1037K 2SC2412K
RESISTORS		Q7303-Q7306	2302412N
R7148,R7161 R7164 R7151.R7153	RAB4C470J RS1/16S3001F RS1/16S3300F	Q7307 D7301	HN1C01FU 1SS355
R7165	RS1/16S3301F	CAPACITORS	
R7154 R7152 R7155	RS1/16S4700F RS1/16S5600F RS1/16S7501F RS1/16S□□□J	C7305 C7340 C7302,C7316,C7337 C7341	CCSRCH100D50 CCSRCH390J50 CEAT100M50 CEAT220M50
Other Resistors	n31/103[[[[]]	C7333	CEAT2R2M50
Other Resistors OTHERS	n31/103[D	C7333	CEAT2R2M50

Mark No. Do	escription	Part No.	Mark	No.	Description	Part No.
C7323		CEAT4R7M50	CAP	ACITO	RS	
C7304	320,C7327,C7331,C7338	CEATR47M50 CKSQYB105K10			1.C7539	CEAT101M6R3
C7316,C73	320,07327,07331,07330	CKSRYB103K10			I,C7511	CEAT221M16
	321,C7328,C7332,C7336	CKSRYB104K16		C7506	6,C7508,C7510,C7514,C7516	CEAT470M25
07010,070	521,07020,07002,07000	OROTTI BTO TRIO),C7524,C7526,C7528,C7530	CEAT470M25
C7334		CKSRYB223K50		C7532	2,C7534,C7536,C7541,C7543	CEAT470M25
C7301,C73	306-C7315,C7317,C7322	CKSRYF104Z16		07545	_	05454701405
C7324-C73	326,C7329,C7330,C7335	CKSRYF104Z16		C7545		CEAT470M25
					2,C7503,C7505,C7507,C7509 2.C7513,C7515,C7517,C7519	CKSRYF104Z16 CKSRYF104Z16
RESISTORS					2,C7513,C7515,C7517,C7519 2,C7523,C7525,C7527,C7529	CKSRYF104Z16
All Resisto	rs	RS1/16S□□□J			1,C7533,C7535,C7537,C7538	CKSRYF104Z16
7 11 1 1001010	.0	1101/100		0,00	.,01000,01000,01001,01000	01.01111101210
THERS				C7540),C7542,C7544	CKSRYF104Z16
	304 TEST PIN	AKX9002				
X7301-177	CRYSTAL RESONATOR		RESI	STOR	S	
700	(16.2MHz)	. 7.00		R7502	2,R7516	RS1MMF1R0J
	(: • := : : : =)			R7519	•	RS1MMF4R7J
DVI BLOCK]			OTH	ERS	0005111	. D
-					SCREW NYRON RIVET	ABA1295 AEP-211
SEMICONDUC	TORS			3004	PROTECTION SHEET	AEP-211 AMR3282
IC7409		24LCS21A		3004	HEXAGONAL HEAD SCREW	
IC7402-IC7	7408	TC74LCX541FT			SCREW	BPZ30P080FZK
IC7410		TC7WH04FU				50. 000. 210
IC7401		TFP201A				
D7401		1SS184				
D7402,D74	404	1SS226				
D7403		RD6.8MB				
CAPACITORS						
	100 07410 07410 07414	0000001404.150				
	408,C7410,C7413,C7414	CCSRCH101J50				
	420,C7421,C7425-C7428	CCSRCH101J50				
C7432,C74 C7403	+04	CCSRCH101J50 CEAT470M10				
	402,C7404,C7405,C7407	CKSRYF104Z16				
37401,07	10=,01 404,01 400,01 401	51.61111 107£10				
C7409,C74	411,C7412,C7415,C7416	CKSRYF104Z16				
C7418,C74	419,C7422-C7424	CKSRYF104Z16				
C7429-C74	431,C7433,C7435-C7438	CKSRYF104Z16				
RESISTORS						
R7412		RAB4C220J				
	402,R7408,R7409	RAB4C680J				
_	416,R7423,R7429,R7432	RAB4C680J				
R7438	440	RAB4C680J				
R7417,R74	+10	RN1/16SE1001D				
Other Resi	stors	RS1/16S□□□J				
OTHERS						
CN7402	24P DVI SOCKET	AKP1216				
CN/402	247 DVI SUUKEI	ANT 1210				
VIDEO REG B	LOCK]					
SEMICONDUC	-					
IC7501	. 5.10	PQ05DZ11				
IC7501 IC7503,IC7	7504	PQ3DZ11 PQ3DZ13				
IC7503,IC7	7 JUT	TA79L05F				
10/302		17.17 OLUGI				
ILTERS						

ATF1194

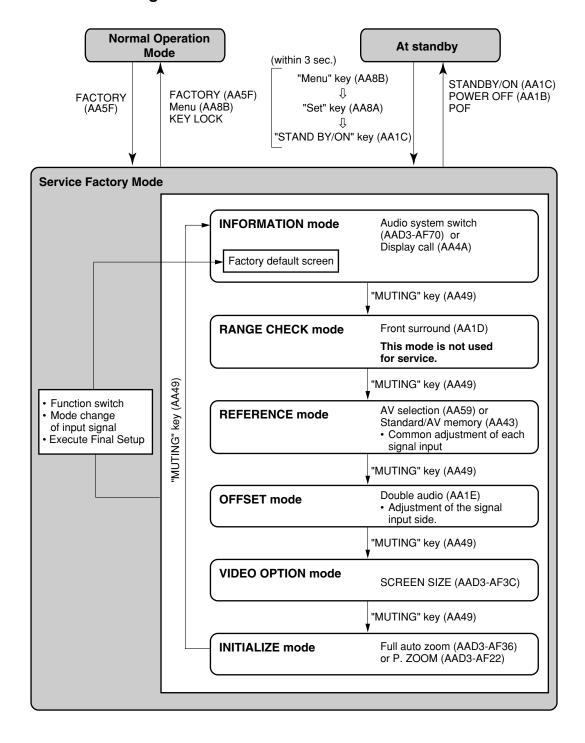
F7501-F7515 EMI FILTER

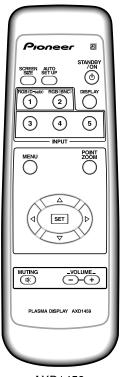
6. ADJUSTMENT

6.1 SERVICE FACTORY MODE

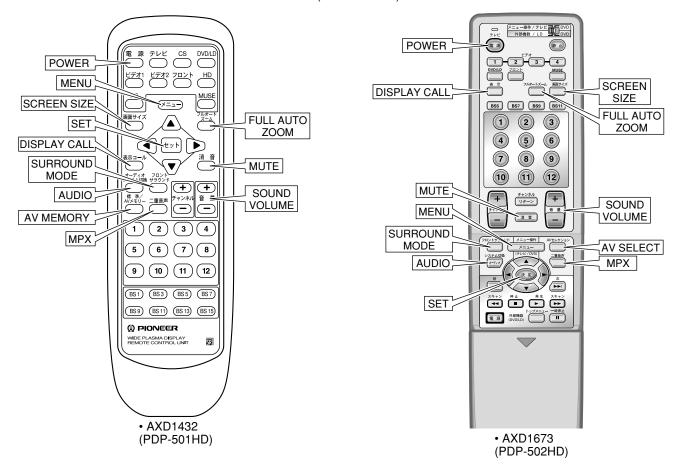
Perform the operations of Service Factory mode using the Remote Control Unit provided with the Plasma Display (AXD1459).

6.1.1 State Transition Diagram





AXD1459 (PDP-503CMX)



Caution of Operation of the Remote Control Unit

- In the service factory mode, use the key which does not exist in a remote control unit (AXD1459) attached to this product as the direct selection key of item when selects each item. These keys can use with the attached remote control units (AXD1432 and AXD1673) in the PDP-501HD and PDP-502HD.
- When operate the service factory mode with the attached remote control unit in this product, selection is possible with the following key
 cyclically.

Large item selection: MUTE key

Selection except large item: UP (▲), DOWN (▼) keys

Operation When Entered the Service Factory Mode

1) Setting value of menu mode

• Reset "PICTURE" item (center value).

Notes: Adjustment value of "PICTURE" to reset is limited to the following face.

At VIDEO: Current signal mode of the selected input function

At PC: Correspond to the history of the signal mode input into past, "Table A to H".

• Reset all "SCREEN" items (center value).

Note: Adjustment value of "SCREEN" to reset is limited to the current signal mode of the selected input function.

Supplement: If execute FINAL SET UP or PICTURE DEFAULT, minimize the adjustment value of menu mode here so that it becomes the center value.

• "SET UP" and "OPTION" of menu mode are maintained except items as follows.

COLOR TEMP: It becomes "MIDDLE" setting

AUTO POWER OFF/POWER MANAGEMENT: Setting is maintained, but do not work

2 Adjustment value of the integrator mode

Adjustment values of "PICTURE" and "WHITE BAL" select the adjustment values which are applicable to the current input function signal
mode.

Notes: Adjustment value of "PICTURE" and "WHITE BAL" to reset is limited to the following face.

At VIDEO: Current signal mode of the selected input function

At PC: Correspond to the history of the signal mode input into past, "Table A to H ".

- · SCREEN setting value is maintained.
- "SET UP" and "OPTION" of integrator menu are maintained except items as follows.

SIDE MASK LEVEL: Adjustment value is reset, and it becomes default value.

FULL MASK which was set with the integrator mode: Release

OFF TIMER: Release

• COLOR MODE (integrator menu) setting maintains setting in the integrator menu.

3 Others

When input signal mode changed, change setting, and display default screen (INFORMATION-VERSION) of the service factory mode.
 Maintain the service factory mode.

Note: At a point in time when the input signal mode changed, perform an operation of ① and ②.

• Switch it in selected FUNCTION when switched FUNCTION. Then display default screen (INFORMATION-VERSION) of the service factory mode, and maintain the service factory mode.

Note: At the point that switched FUNCTION, perform an operation of (1) and (2).

- Perform COLOR DETECT setting with "COLOR SYSTEM" of set menu mode.
- Only address 0100-01FF of module microcomputer / EEPROM copy/updates the data to the module microcomputer area of main microcomputer EEPROM.
- Various protection feature of the panel (Still picture detection, Block brightness detection and SCAN IC protection feature) turns OFF. Notes: When each protection feature turns OFF once and released the factory mode, maintain it. Protection feature turns ON by turning ON from POWER OFF. Therefore turn ON from POWER OFF by all means in order to operate protection feature when released the factory mode.
- In the no input, apply playback and non-correspondence PC signal input, accepts only the setting item that does not depend on a signal mode. (But refer to the item "MASK1 and MASK2" about MASK setting.)

An item depending on the signal mode turns the display color to gray and it cannot change the setting.

6.1.2 Adjustment Items Table of Service Factory

SLOT

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
	YDL	Y-DELAY	YDL	REF/OFS-SLOT-1	0 to 15 [8]
	YOUTLEV	Y-OUT LEVEL	YOL	REF/OFS-SLOT-2	0 to 63 [32]
CD	TINT	CD TINT	CTI	REF/OFS-SLOT-3	0 to 63 [32]
	CrOFFSET	CDR OFFSET	CDR	REF/OFS-SLOT-4	0 to 15 [8]
	CbOFFSET	CDB OFFSET	CDB	REF/OFS-SLOT-5	0 to 15 [8]
EXP	R-Y_LEVEL	R-Y LEVEL	LRY	REF/OFS-SLOT-6	0 to 255 [128]
	B-Y_LEVEL	B-Y LEVEL	LBY	REF/OFS-SLOT-7	0 to 255 [128]

RGB1

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
	PICTURE	MAT CONT	MCT	REF/OFS-RGB1-1	0 to 63 [32]
MATRIX	BRIGHT	MAT BRIGHT	MBR	REF/OFS-RGB1-2	0 to 63 [32]
IVIATRIA	COLOR	MAT COLOR	MCL	REF/OFS-RGB1-3	0 to 63 [32]
	HUE	MAT TINT	MTI	REF/OFS-RGB1-4	0 to 63 [32]
	MAINCONTRAST	AD MAIN CONT	MCA	REF/OFS-RGB1-5	0 to 255 [128]
	SUBRCONTRAST	AD R HIGH	GHA	REF/OFS-RGB1-6	0 to 255 [128]
	SUBGCONTRAST	AD G HIGH	BHA	REF/OFS-RGB1-7	0 to 255 [128]
AD	SUBBCONTRAST	AD B HIGH	RHA	REF/OFS-RGB1-8	0 to 255 [128]
	BRIGHTR	AD R LOW	GLA	REF/OFS-RGB1-9	0 to 255 [128]
	BRIGHTG	AD G LOW	BLA	REF/OFS-RGB1-10	0 to 255 [128]
	BRIGHTB	AD B LOW	RLA	REF/OFS-RGB1-11	0 to 255 [128]

RGB2

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
IC102	COLOR	COLOR	COL	REF/OFS-RGB2-1	0 to 255 [128]
W/B	TINT	TINT	TNT	REF/OFS-RGB2-2	0 to 255 [128]
	MCONTRAST	CONTRAST	CNT	REF/OFS-RGB2-3	0 to 255 [128]
	MBRIGHT	BRIGHT	BRT	REF/OFS-RGB2-4	0 to 255 [128]
	R HIGH	R. HIGH	RHI	REF/OFS-RGB2-5	0 to 255 [255]
IC30	G HIGH	G. HIGH	GHI	REF/OFS-RGB2-6	0 to 255 [255]
W/B	B HIGH	B. HIGH	BHI	REF/OFS-RGB2-7	0 to 255 [255]
	R LOW	R. LOW	RLW	REF/OFS-RGB2-8	0 to 255 [128]
	G LOW	G. LOW	GLW	REF/OFS-RGB2-9	0 to 255 [128]
	B LOW	B. LOW	BLW	REF/OFS-RGB2-10	0 to 255 [128]

DIGITAL

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
	PANEL R-HIGH	PANEL R-HIGH	PRH	REF/OFS-DIGITAL-1	0 to 255 [255]
	PANEL G-HIGH	PANEL G-HIGH	PGH	REF/OFS-DIGITAL-2	0 to 255 [255]
	PANEL B-HIGH	PANEL B-HIGH	PBH	REF/OFS-DIGITAL-3	0 to 255 [255]
	PANEL R-LOW	PANEL R-LOW	PRL	REF/OFS-DIGITAL-4	0 to 999 [512]
	PANEL G-LOW	PANEL G-LOW	PGL	REF/OFS-DIGITAL-5	0 to 999 [512]
	PANEL B-LOW	PANEL B-LOW	PBL	REF/OFS-DIGITAL-6	0 to 999 [512]
DIGITAL	ABL LEVEL	ABL LEVEL	ABL	REF/OFS-DIGITAL-7	0 to 255 [128]
	X-SUS-B	X-SUS-B	XSB	REF-DIGITAL-8	4 to 12
	X-SUS-G	X-SUS-G	XSG	REF-DIGITAL-9	4 to 12
	Y-SUS-B	Y-SUS-B	YSB	REF-DIGITAL-10	4 to 12
	Y-SUS-G	Y-SUS-G	YSG	REF-DIGITAL-11	4 to 12
	V-SUS	V-SUS	VSU	REF-DIGITAL-12	0 to 255
	V-OFFSET	V-OFFSET	VOF	REF-DIGITAL-13	0 to 255

SIDE MASK LEVEL (VIDEO OPTION)

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
	R SIDE MASK LEV	R SIDE MASK LEV	RSL	VOP-M LEV-1	0 to 255
IC30	G SIDE MASK LEV	G SIDE MASK LEV	GSL	VOP-M LEV-2	0 to 255
	B SIDE MASK LEV	B SIDE MASK LEV	BSL	VOP-M LEV-3	0 to 255

COLOR TEMP (VIDEO OPTION)

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
10100	COLOR	COLOR		VOP-CT-3	0 to 255 [128]
IC102	TINT	TINT		VOP-CT-4	0 to 255 [128]
	MCONTRAST	CONTRAST		VOP-CT-1	0 to 255 [128]
	MBRIGHT	BRIGHT		VOP-CT-2	0 to 255 [128]
	R HIGH	R. HIGH		VOP-CT-5	0 to 255 [255]
IC30	G HIGH	G. HIGH		VOP-CT-6	0 to 255 [255]
1030	B HIGH	B. HIGH		VOP-CT-7	0 to 255 [255]
	R LOW	R. LOW		VOP-CT-8	0 to 255 [128]
	G LOW	G. LOW		VOP-CT-9	0 to 255 [128]
	B LOW	B. LOW		VOP-CT-10	0 to 255 [128]

COLOR MODE2 (VIDEO OPTION)

	Name	OSD Display Name	RS-232C Command	Service Factory Operation	Adjustment Range (OFFSET Reference Value)
IC102	COLOR	COLOR		VOP-CM2-3	0 to 255 [128]
10102	TINT	TINT		VOP-CM2-4	0 to 255 [128]
	MCONTRAST	CONTRAST		VOP-CM2-1	0 to 255 [128]
	MBRIGHT	BRIGHT		VOP-CM2-2	0 to 255 [128]
	R HIGH	R. HIGH		VOP-CM2-5	0 to 255 [255]
IC30	G HIGH	G. HIGH		VOP-CM2-6	0 to 255 [255]
1000	B HIGH	B. HIGH		VOP-CM2-7	0 to 255 [255]
	R LOW	R. LOW		VOP-CM2-8	0 to 255 [128]
	G LOW	G. LOW		VOP-CM2-9	0 to 255 [128]
	B LOW	B. LOW		VOP-CM2-10	0 to 255 [128]

Calculation of Adjustment Value in the Service Factory Mode

- As for the adjustment value in the service factory mode, it becomes an actual adjustment value that subtracted OFFSET reference value (value in [] of the above table) from the value that added a REFERENCE adjustment value and an OFFSET adjustment value.
 - Notes: It becomes the adjustment value that adjusted it with REFERENCE because there is not an OFFSET adjustment value as forR SIDE MASK LEV, G SIDE MASK LEV and B SIDE MASK LEV of item SIDE MASK LEVEL and X-SUS-B, X-SUS-G, Y-SUS-B, Y-SUS-G, V-SUS and V-OFFSET of item DIGITAL.
- As for COLOR MODE2 and COLOR TEMP, it becomes OFFSET value of each the value that subtracted OFFSET reference value (a value in [] of the above table) from a adjustment value of selected mode. It becomes a adjustment value of the last RGB 2 device (IC30 and IC102) the value that added this OFFSET value to each adjustment item of RGB 2.

Actual Calculation Example

• Each adjustment value of SLOT/ RGB 1/RGB2/DIGITAL

(REFERENCE value)

{ (OFFSET value) – [OFFSET reference value] } ... Calculation of a value to add as OFFSET

· COLOR MODE2 OFFSET value

{ (COLOR MODE2 adjustment value) - [OFFSET reference value] } ... Calculation of a value to add as OFFSET for COLOR MODE2 Note: Add it only in COLOR MODE2 selection.

• COLOR TEMP OFFSET value

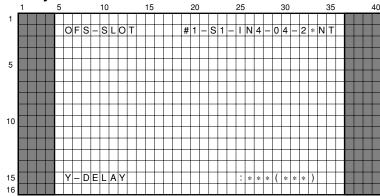
{(COLOR TEMP adjustment value) - [OFFSET reference value] } ... Calculation of a value to add as OFFSET for COLOR TEMP Note: Add it only in COLOR TEMP 1,2,4 and 5 selection.

Perform the addition in the normal operation, menu mode and COLOR TEMP adjustment mode of the service factory mode (in item VIDEO OPTION), and add OFFSET value of selected setting.

COLOR TEMP OFFSET does not add it in order to work by COLOR TEMP 3 setting in the integrator mode and in the service factory mode except COLOR TEMP adjustment mode.

6.1.4 Display Description of Service Factory Menu

1. In Adjustment Item



Display color: White

Halftone : Blue (second row/15th row

for each 5 to 36 columns)

When there is not item which is applicable to the input

signal mode, display the adjustment value with "———" (————)", and perform the item

indication color to gray.

• Second row / 6th to 16th columns : Display the upper layer of selection item • • • At the Service factory mode

Second row / 6th to 7th columns : Display the ID No. • • • At the RS-232C factory mode

Second row / 9th to 16th columns : Display the upper layer of selection item • • • At the RS-232C factory mode

• Second row / 19th to 20th columns: Current color mode setting

• Second row / 22th to 23th columns: Current slot type

	Slot Type or Model Type	At PDA-5002 is mounted with	PDP-503PRO and PRO-1000HD	Outside Product Slot	No SLOT
Γ	Display	S1	US	T1 to T8	NO

- Second row / 25th to 27th columns : Current function
- Second row / 29th to 32th columns: Current signal mode
- Second row / 32th columns: Current Screen size (Refer to the "classification of input signal" with regard to each numeric value.)

 Current signal mode displayes the signal mode of any of mode 03, mode 31, mode E1, mode 61 or mode 71.

Setting	Signal Mode Display
VIDEO	03
VGA	31
WVGA	E1
XGA	61
WXGA	71

Current signal mode displayes the signal mode of any of mode 12 or mode 13.

HDTV Mode Setting (Integrator Menu)	Signal Mode Display
1080i	12
1035i	13

Display in the no signal and non-correspondence signal

Signal Mode Display	Signal Definition
FB	OUT OF RANGE (The signal that the measurement is impossible with the main microcomputer)
FC	OUT OF RANGE (In the video system signal when video signal does not input)
FD	OUT OF RANGE (In the non-correspondence signal at DVI input)
FE	OUT OF RANGE (When the measurement is possible with the main microcomputer, and non-correspondence signal that is not applicable to FC and FD)
FF	No signal

• Second row / 33th column : Current input form

Input Form	Component	Video-RGB	Composite	Y/C
Display	#	@	*	/

Non-display excepting above form (blank).

• Second row / 34th to 35th columns : Current color system

Color System	NTSC	PAL	SECAM	4.43NTSC	PAL-M	PAL-N	BLACK/WHITE
Display	NT	PL	SC	4N	PM	PN	BW

Non-display it (blank) when a case except COLOR SYSTEM mentioned above and COLOR SYSTEM setting is fixed.

- 15th row / 6th to 24th columns : Current item selection
- 15th row / 26th to 35th columns:

RANGE CHECK selection : Current selecting value

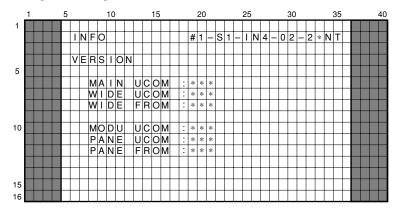
1. At REFERENCE selection : Adjustment value

2. At OFFSET selection : OFFSET value (adjustment value) * Adjustment value is REFERENCE value + OFFSET value.

3. At VIDEO OPTION selection: No display

At INITIALIZE selection : The setting that is selected. (There is no display in the item which there is the lower layer.)

2. INFORMATION



Basic Operation

• Display the state of each item

AA01 1 VERSION AA02 2 PD INFO AA03 3 NG INFO AA04 4 TEMPERATURE AA05 5 MEMO AA06 6 AA07 7 AA08 8 AA00 10 AA404 11 AA47 12 AA40 BS1 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA63 BS13 AA54 SB15 AA64 SB15 AA65 AA67 ▼ Select lower item AA96	Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA03 3 NG INFO AA04 4 TEMPERATURE AA05 5 MEMO AA06 6 6 AA07 7 7 AA08 8 8 AA09 9 9 AA00 10 AA46 11 AA47 12 AA4D BS1 AA4F BS5 AA50 BS7 AA51 BS9 AA51 BS9 AA51 BS9 AA52 BS11 AA52 BS11 AA53 BS13 AA54 BS15 AA64 BS15 AA64 BS15 AA64 BS15 AA65 Select upper item AA96	AA01	1	VERSION		microcomputer : Ver	×
AA03	AA02	2	PD INFO		Past eight times / Place (1st, 2nd) / Time Stamp	×
AA05	AA03	3	NG INFO	Display the each information		×
AA06 6 6 AA07 7 7 AA08 8 8 AA09 9 9 AA00 10 AA46 11 AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA51 BS9 AA52 BS11 AA52 BS11 AA53 BS13 AA54 BS15 AA55 BS11 AA66 ▲ Select upper item AA97 ▼ Select lower item Select lower item AA98 ≪ AA8A SET AA03-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AA1E MPX AA1E MPX AA1B MPX AA1	AA04	4	TEMPERATURE		1/2/3/FAN output	×
AA07 7 AA08 8 AA09 9 AA00 10 AA46 11 AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA51 BS9 AA52 BS11 AA52 BS11 AA53 BS13 AA54 BS15 AA59 AS18 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 ▼ Select lower item AA98 SET AA03-AF70 AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA18 MPX AA03-AF36 FULL AUTO ZOOM AAD3-AF36 FULL AUTO ZOOM AAD3-AF36 FULL AUTO ZOOM AA03-AF22 AA08 MITTING Shift to next adjustment SANGE CHECK	AA05	5	МЕМО		Display MEMO	×
AA08 8 8 AA09 9 9 AA00 10 AA46 11 AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 N Select lower item AA97 N Select lower item AA97 Select lower item AA98 SET AABA SET AABA SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AA03-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAA0 MILTING Shift to next adjustment AA00 MILTING Shift to next adjustment	AA06	6				
AA09 9 9 AA00 10 AA46 11 AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 ▼ Select lower item AA93 S ≪ AA8A SET AABA SET AABA SET AABA AS9 AV SELECT AA43 AV MEMORY AA43 AV MEMORY AA44 NMEMORY AA45 BS15 AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAA3 AF3C SCREEN SIZE AAA0 MILTING Shift to next adjustment	AA07	7				
AA00 10 AA46 11 AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 ▼ Select lower item AA91 ≫ AA94 ≫ AA95 ≪ AA8A SET AAD3-AF70 AUDIO DISPLAY CALL AA1D SURROUND MODE AA59 AA59 AV SELECT AA49 AA1E MPX AA1E MPX AA33-AF3C SCREEN SIZE AA03-AF36 FULL AUTO ZOOM P.ZOOM AA33-AF32 SCREEN SIZE AA00 MITTING Shift to next adjustment SANGE CHECK	AA08	8				
AA46 11 AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 ▼ Select lower item AA97 ■ Select lower item AA95 ≪ AA8A SET AABA SET AABA SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA69 AV SELECT AA49 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAA9 MITTING Shift to next adjustment AAM6 AAA9 MITTING Shift to next adjustment BANGE CHECK	AA09	9				
AA47 12 AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 ▼ Select lower item AA94 ≫ AA95 ≪ AABA SET AAABA SET AABA SET ABBA SET	AA00	10				
AA4D BS1 AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA94 ≫ AA95 ≪ AABA SET AAAD3-AF70 AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF36 FULL AUTO ZOOM AAD3-AF30 MILTING Shift to next adjustment AA40 MILTING Shift to next adjustment BANGE CHECK	AA46	11				
AA4E BS3 AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA97 ▼ Select lower item AA94 ≫ AA95 ≪ AABA SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF3C FULL AUTO ZOOM AAD3-AF3C FULL AUTO ZOOM AAD3-AF3C FULL AUTO ZOOM AAD3-AF3C FULL AUTO ZOOM AAD3-AF3C SCREEN SIZE AAA30 MILTING Shift to next adjustment BANGE CHECK PANGE CHECK	AA47	12				
AA4F BS5 AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA94 ≫ AA95 ≪ AABA SET AABA SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA4D AV SELECT AA43 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE VIDEO OPTION INITIALIZE AA40 MILTING Shift to next adjustment PANGE CHECK	AA4D	BS1				
AA50 BS7 AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA91 ≫ AA94 ≫ AA95 ≪ AABA SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF3C SCREEN SIZE AAD3-AF3C FULL AUTO ZOOM AAD3-AF3C FULL AUTO ZOOM AD3-AF3C SCREEN SIZE AA40 MILTING Shift to next adjustment AA40 MILTING Shift to next adjustment BANGE CHECK	AA4E	BS3				
AA51 BS9 AA52 BS11 AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA94 ≫ AA95 ≪ AA8A SET AABA SET AAD3-AF70 AUDIO DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AA1E MPX AAD3-AF36 FULL AUTO ZOOM AAD3-AF36 FULL AUTO ZOOM AAD3-AF36 FULL AUTO ZOOM AAD3-AF36 P.ZOOM AA40 MILTING Shift to next adjustment BANGE CHECK BEFERENCE OFFSET VIDEO OPTION INITIALIZE	AA4F	BS5				
AA52 BS11 AA53 BS13 AA54 BS15 AA96	AA50	BS7				
AA53 BS13 AA54 BS15 AA96 ▲ Select upper item AA97 ▼ Select lower item AA94 ≫ AA95 ≪ AABA SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AA03-AF36 FULL AUTO ZOOM AAD3-AF36 FULL AUTO ZOOM AAD3-AF36 FULL AUTO ZOOM AAA0 MUTING Shift to next adjustment BANGE CHECK REFERENCE OFFSET VIDEO OPTION INITIALIZE	AA51	BS9				
AA96	AA52	BS11				
AA96	AA53	BS13				
AA97 Select lower item AA94 AA95 AA8A SET AAD3-AF70 AUDIO	AA54	BS15				
AA94	AA96	A	Select upper item			
AA95 AA8A	AA97	▼	Select lower item			
AA8A SET AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM AAD3-AF22 P.ZOOM AA40 MILTING Shift to next adjustment AA40 MILTING Shift to next adjustment BANGE CHECK REFERENCE OFFSET VIDEO OPTION INITIALIZE BANGE CHECK	AA94	>>				
AAD3-AF70 AUDIO AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM AAA0 MILTING Shift to next adjustment AA40 MILTING Shift to next adjustment BANGE CHECK REFERENCE OFFSET VIDEO OPTION INITIALIZE	AA95	«				
AA4A DISPLAY CALL AA1D SURROUND MODE AA59 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM AAD3-AF22 P.ZOOM AA40 MILTING Shift to next adjustment AA40 MILTING Shift to next adjustment BANGE CHECK RANGE CHECK REFERENCE OFFSET VIDEO OPTION INITIALIZE	AA8A					
AA59 AA43 AV SELECT AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM AAD3-AF22 P.ZOOM AA40 MILTING Shift to various adjustment / setting screen. REFERENCE OFFSET VIDEO OPTION INITIALIZE PANGE CHECK				INFORMATION		
AA43 AV MEMORY AA1E MPX AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM AAD3-AF22 P.ZOOM AA40 MILTING Shift to next adjustment AA40 MILTING Shift to next adjustment BANGE CHECK	AA1D	SURROUND MODE		RANGE CHECK		
AAAB MPX screen. AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM AAD3-AF22 P.ZOOM AA40 MILTING Shift to next adjustment PANGE CHECK				REFERENCE		
AAD3-AF3C SCREEN SIZE AAD3-AF36 FULL AUTO ZOOM INITIALIZE AAA0 MILTING Shift to next adjustment PANGE CHECK	AA1E	MPX		OFFSET		
AAD3-AF22 P.ZOOM INITIALIZE AAA0 MUTING Shift to next adjustment PANGE CHECK			30,001.	VIDEO OPTION		
				INITIALIZE		
	AA49	MUTING		RANGE CHECK		

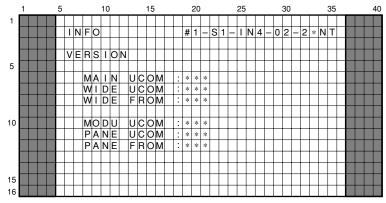
Operating specification

- Start from VERSION (Key1) when shifted to this setting screen.
 When each key was pressed, follow the required operation.

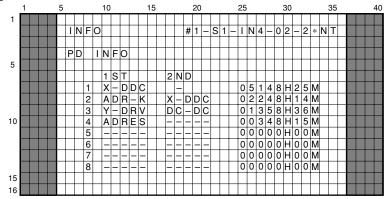
Note: Perform VERSION display as the default screen of the service factory mode.

3. OSD Display in INFORMATION

1 VERSION



(2) PD INFO.



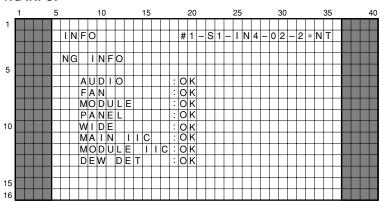
Display the power down point (1st or 1st, 2nd) and an hour meter of the time.

Perform display to maximum eight times, and if display became more than eight times, perform clear in order from the old information, and update it to the latest information.

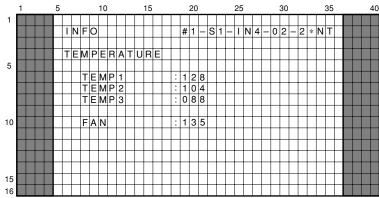
Display details at PD INFORMATION

	Display	PD Point		Display	PD Point
1	X-DRV	X-DRIVE	5	ADRES	ADDRESS junction
2	X-DDC	X-DC/DC CONVERTER	6	ADR-K	ADDRESS resonance
3	Y-DRV	Y-DRIVE	7	POWER	Power supply
4	Y-DDC	Y-DC/DC CONVERTER	8	DC-DC	DC/DC CONVERTER (DIGITAL)

(3) NG INFO.



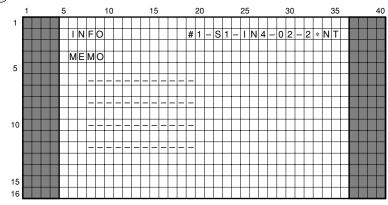
4 TEMPERATURE



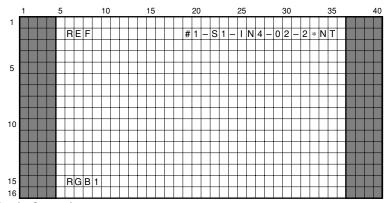
- Each display is the value of A/D input or D/A output of the microcomputer (0 to 255).
- Temperature sensor 1, 2 and 3
- FAN

Note: Refer to "Shut down diagnosis" in the "7.1.2 SHUTDOWN/POWER DOWN DIAGNOSIS BY LED DISPLAY" to calculate real sensor temperature from each indicated value.

5 MEMO



4. REFERENCE



Display color: White

Halftone : Blue (Second row / 15th row

for each 5th to 36th columns)

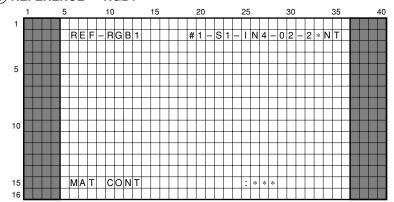
Basic Operation

· Select the adjustment table

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	RGB1			0
AA02	2	RGB2	Select the		0
AA03	3	DIGITAL	adjustment table		0
AA04	4	SLOT			0
AA05	5				
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select the upper item			
AA 97	▼	Select the lower item			
AA94	>				
AA95	«				
AA8A	SET	Select the item and shift to lower layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various adjustment / setting	REFERENCE		
AA1E	MPX	screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment /setting screen	OFFSET		

- Start from RGB 1 (Key 1) when shifted to this setting screen.
 However, the movement original item to be selected when shifted from the lower layer.
 When each key was pressed, follow the required operation.
 In INPUT5 (DVI) selection, impossible "RGB1" and "SLOT" selections (do not perform the display skip).
 When SLOT is not inserted and the external SLOT is inserted, selection of "SLOT" is impossible (do not perform the display skip).
 When selection of the item is impossible, turn the OSD display color into gray.

1 REFERENCE — RGB1



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

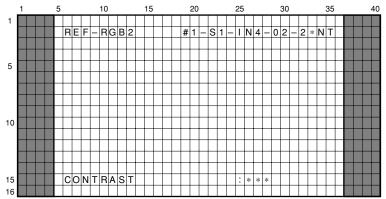
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remark	Lower Layer
AA01	1	MAT CONT			×
AA02	2	MAT BRIGHT			×
AA03	3	MAT COLOR			×
AA04	4	MAT TINT			×
AA05	5	AD MAIN CONT	Call the		×
AA06	6	AD R HIGH	adjustment value		×
AA07	7	AD G HIGH	and display it.		×
AA08	8	AD B HIGH			×
AA09	9	AD R LOW			×
AA00	10	AD G LOW			×
AA46	11	AD B LOW			×
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	er selecting goes up.		
AA95	«	Adjustment value of the paramet	er selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	30.0011.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shift to next adjustment / setting screen.	OFFSET		

- Start from MAT CONT (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
 When there is not the item which is applicable to an input signal mode, display the adjustment value to "———", and turn the item display color into gray.

2 REFERENCE — RGB2



Display color: White

: Blue (second row / 15th row for each 5 to 36th columns) Half tone

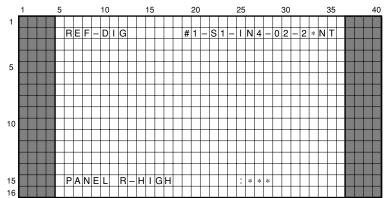
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Call the		×
AA06	6	G HIGH	adjustment value		×
AA07	7	B HIGH	and display it.		×
AA08	8	R LOW			×
AA09	9	G LOW			×
AA00	10	B LOW			×
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the parameter	ter selecting goes down.		
AA8A	SET	Store the adjustment value an	nd shift to upper layer.		
AAD3-AF70	AUDIO		INFORMATION		
AA4A	DISPLAY CALL				
AA1D AA59	SURROUND MODE AV SELECT	-	RANGE CHECK		
AA39 AA43	AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	Jordon.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shift to next adjustment / setting screen.	OFFSET		

- Start from CONTRAST (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
 When there is not the item which is applicable to an input signal mode, display the adjustment value to "———", and turn the item display color into gray.

3 REFERENCE — DIGITAL



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

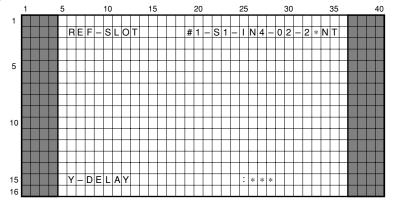
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	PANEL R-HIGH			×
AA02	2	PANEL G-HIGH			×
AA03	3	PANEL B-HIGH			×
AA04	4	PANEL R-LOW			×
AA05	5	PANEL G-LOW	Call the		×
AA06	6	PANEL B-LOW	adjustment value		×
AA07	7	ABL LEVEL	and display it.		×
AA08	8	X-SUS-B			×
AA09	9	X-SUS-G			×
AA00	10	Y-SUS-B			×
AA46	11	Y-SUS-G			×
AA47	12	V-SUS			×
AA4D	BS1	V-OFFSET			×
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the paramet	ter selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	Jordon.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM	1	INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	OFFSET		

- Start from PANEL R-HIGH (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
 When there is not the item which is applicable to an input signal mode, display the adjustment value to "———", and turn the item display color into gray.

(4) REFERENCE — SLOT (At Connected SLOT ST1) • This mode is effective for SLOT ST1 only in connection



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

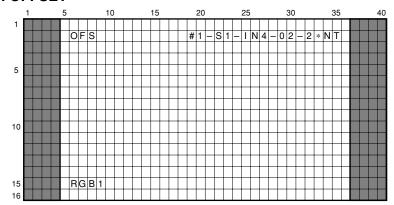
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	Y-DELAY			×
AA02	2	Y-OUT LEVEL			×
AA03	3	CD TINT	Call the		×
AA04	4	CDR OFFSET	adjustment value		×
AA05	5	CDB OFFSET	and display it.		×
AA06	6	R-Y LEVEL			×
AA07	7	B-Y LEVEL			×
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the paramet	ter selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70	AUDIO		INFORMATION		
AA4A	DISPLAY CALL				
AA1D AA59	SURROUND MODE AV SELECT	-	RANGE CHECK		
AA39 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	3010011.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shift to next adjustment / setting screen.	OFFSET		

- Start from Y-DELAY (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
 When there is not the item which is applicable to an input signal mode, display the adjustment value to "———", and turn the item display color into gray.

5. OFFSET



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

Basic Operation

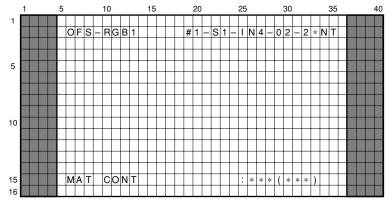
Select the adjustment table

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	RGB1			0
AA02	2	RGB2	Select the		0
AA03	3	DIGITAL	adjustment table		0
AA04	4	SLOT			0
AA05	5				
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select the upper item			
AA97	▼	Select the lower item			
AA94	>>				
AA95	«				
AA8A	SET	Select the item and shift to lower layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	100.0011.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	VIDEO OPTION		

- Start from RGB 1 (Key 1) when shifted to this setting screen. However, the movement original item to be selected when shifted from the lower layer.
 When each key was pressed, follow the required operation.
 In INPUT5 (DVI) selection, impossible "RGB1" and "SLOT" selections (do not perform the display skip).
 When SLOT is not inserted and the external SLOT is inserted, selection of "SLOT" is impossible (do not perform the display skip).

- When selection of the item is impossible, turn the OSD display color into gray.
 Selection of each item is impossible at no input signal.

1 OFFSET — RGB1



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

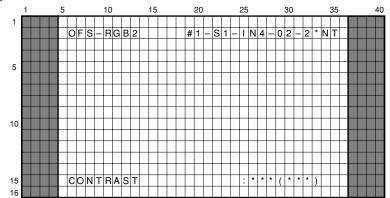
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	MAT CONT			×
AA02	2	MAT BRIGHT			×
AA03	3	MAT COLOR			×
AA04	4	MAT TINT			×
AA05	5	AD MAIN CONT	Call the		×
AA06	6	AD R HIGH	adjustment value		×
AA07	7	AD G HIGH	and display it.		×
AA08	8	AD B HIGH			×
AA09	9	AD R LOW			×
AA00	10	AD G LOW			×
AA46	11	AD B LOW			×
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the parameter	ter selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE]	RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	- 50/66/1.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	VIDEO OPTION		

- Start from MAT CONT (key 1) when shifted to this setting screen.
- When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
- When there is not the item which is applicable to an input signal mode, display the adjustment value to "-----(----)", and turn the item display color into gray.

${\bf (2)}\, {\bf OFFSET-RGB2}$



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

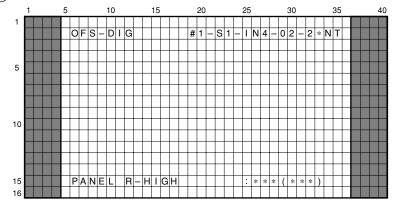
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Call the		×
AA06	6	G HIGH	adjustment value		×
AA07	7	B HIGH	and display it.		×
AA08	8	R LOW			×
AA09	9	G LOW			×
AA00	10	B LOW			×
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA 97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the paramet	ter selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE	-	RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting	OFFSET		
AAD3-AF3C	SCREEN SIZE	screen.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	VIDEO OPTION		

- Start from CONTRAST (key 1) when shifted to this setting screen.
- When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
- When there is not the item which is applicable to an input signal mode, display the adjustment value to "-----(")", and turn the item display color into gray.

(3) OFFSET — DIGITAL



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

Basic Operation

Perform the adjustment of each parameter

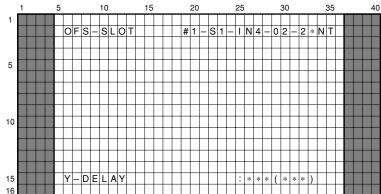
Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	PANEL R-HIGH			×
AA02	2	PANEL G-HIGH			×
AA03	3	PANEL B-HIGH	Call the		×
AA04	4	PANEL R-LOW	Call the adjustment value		×
AA05	5	PANEL G-LOW	and display it.		×
AA06	6	PANEL B-LOW			×
AA07	7	ABL LEVEL			×
AA08	8	X-SUS-B			×
AA09	9	X-SUS-G			×
AA00	10	Y-SUS-B	_	Selection is possible, and setting is impossible	×
AA46	11	Y-SUS-G			×
AA47	12	V-SUS			×
AA4D	BS1	V-OFFSET			×
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the paramet	ter selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70	AUDIO		INFORMATION		
AA4A	DISPLAY CALL				
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting	OFFSET		
AAD3-AF3C	SCREEN SIZE	screen.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shift to next adjustment / setting screen.	VIDEO OPTION		

- Start from PANEL R-HIGH (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
- When there is not the item which is applicable to an input signal mode, display the adjustment value to "-
- and turn the item display color into gray.

 Because there is not the item which is applicable to an OFFSET item as for X–SUS–B, X–SUS–G, Y-SUS-B, Y–SUS–G, V–SUS and V–OFFSET, selection is impossible. Always turn the OSD display color into gray, and display the adjustment value to "———— (————)"

4 OFFSET — SLOT (At Connected SLOT ST1)

• This mode is effective for SLOT ST1 only in connection



Display color : White

: Blue (second row / 15th row for Half tone

each 5 to 36th columns)

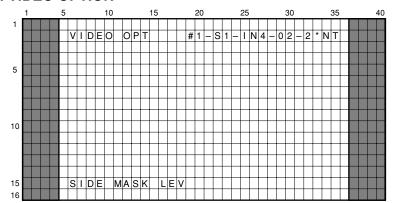
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	Y-DELAY			×
AA02	2	Y-OUT LEVEL			×
AA03	3	CD TINT	Call the		×
AA04	4	CDR OFFSET	adjustment value		×
AA05	5	CDB OFFSET	and display it.		×
AA06	6	R-Y LEVEL			×
AA07	7	B-Y LEVEL			×
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA 97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	ter selecting goes up.		
AA95	«	Adjustment value of the paramet	ter selecting goes down.		
AA8A	SET	Store the adjustment value and	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting	OFFSET		
AAD3-AF3C	SCREEN SIZE	screen.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	VIDEO OPTION		

- Start from Y-DELAY (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
- When there is not the item which is applicable to an input signal mode, display the adjustment value to "and turn the item display color into gray.

6. VIDEO OPTION



Display color : White Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

Basic Operation

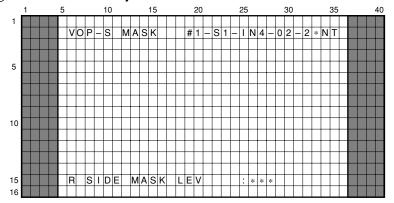
Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	SIDE MASK LEV		Shift to adjustment screen of SIDE MASK LEVEL at SET (AA8A).	0
AA02	2	C MODE2		Shift to adjustment screen of COLOR MODE2 at SET (AA8A).	0
AA03	3	C TEMP LOW	Select the	Shift to adjustment screen of COLOR TEMP LOW at SET (AA8A).	0
AA04	4	C TEMP MID LOW	adjustment item	Shift to adjustment screen of COLOR TEMP MID LOW at SET (AA8A).	0
AA05	5	C TEMP MID HIGH	,	Shift to adjustment screen of COLOR TEMP MID HIGH at SET (AA8A).	0
AA06	6	C TEMP HIGH		Shift to adjustment screen of COLOR TEMP HIGH at +SET (AA8A).	0
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A .	Select upper item			
AA97	▼	Select lower item			
AA94	>>				
AA95	«				
AA8A	SET	Select the item and shift to adjustment screen.			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA 49	MUTING	Shift to next adjustment / setting screen.	INITIALIZE		

- Start from SIDE MASK LEVEL (Key 1) when shifted to this setting screen. However, the movement original item to be selected when shifted from the lower layer.
- When each key was pressed, follow the required operation.
- When entered the service factory mode, COLOR MODE works by integrator setting.

 However in the COLOR MODE2 adjustment, Work with COLOR MODE2 without relation in COLOR MODE setting of the integrator menu.
- COLOR TEMP Setting in the COLOR TEMP Adjustment
 When entered the service factory mode without a relation in user setting, COLOR TEMP becomes "MIDDLE".
 In the COLOR TEMP adjustment, switch the operation to setting of selected COLOR TEMP.

1 SIDE MASK LEV. Adjustment



Display color: White

: Blue (second row / 15th row for each 5 to 36th columns) Half tone

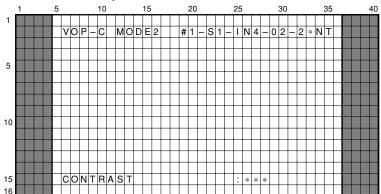
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	R SIDE MASK LEV	Call the		×
AA02	2	G SIDE MASK LEV	adjustment value		×
AA03	3	B SIDE MASK LEV	and display it.		×
AA04	4				
AA05	5				
AA06	6				
AA07	7				
AA08	8				
AA09	9				
AA00	10				
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	er selecting goes up.		
AA95	«	Adjustment value of the paramet	er selecting goes down.		
AA8A	SET	Store the adjustment value and s	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE	1	RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE	3016011.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM	1	INITIALIZE		
AA 49	MUTING	Shift to next adjustment / setting screen.	INITIALIZE		

- Start from R SIDE MASK LEVEL (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.

(2) COLOR MODE2 Adjustment



COLOR MODE indication of second row/35th columns displays the default.

(It is not controlled with the COLOR MODE in adjustment.)

Display color : White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

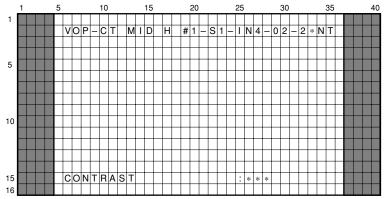
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Call the		×
AA06	6	G HIGH	adjustment value and display it.		×
AA07	7	B HIGH	and display it.		×
AA08	8	R LOW			×
AA09	9	G LOW			
AA00	10	B LOW			
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>	Adjustment value of the paramet	er selecting goes up.		
AA95	«	Adjustment value of the paramet	er selecting goes down.		
AA8A	SET	Store the adjustment value and s	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various adjustment / setting screen.	REFERENCE		
AA1E	MPX		OFFSET		
AAD3-AF3C	SCREEN SIZE	100.0011.	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	INITIALIZE		

- Start from CONTRAST (key 1) when shifted to this setting screen.
 When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
- It becomes COLOR MODE2 during COLOR MODE adjustment. However, do not perform the last memory of setting. (Perform last memory of the adjustment value.)

3 COLOR TEMP Adjustment



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

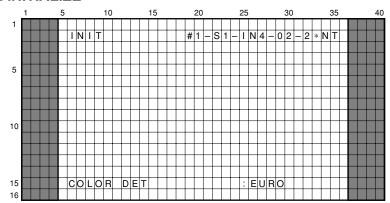
Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	CONTRAST			×
AA02	2	BRIGHT			×
AA03	3	COLOR			×
AA04	4	TINT			×
AA05	5	R HIGH	Call the		×
AA06	6	G HIGH	adjustment value and display it.		×
AA07	7	B HIGH	and display it.		×
AA08	8	R LOW			×
AA09	9	G LOW			×
AA00	10	B LOW			×
AA46	11				
AA47	12				
AA4D	BS1				
AA4E	BS3				
AA4F	BS5				
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select upper item			
AA97	▼	Select lower item			
AA94	>>	Adjustment value of the paramet	er selecting goes up.		
AA95	«	Adjustment value of the paramet	er selecting goes down.		
A8AA	SET	Store the adjustment value and s	shift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA4A AA1D	SURROUND MODE	-	RANGE CHECK		
AA59	AV SELECT	_			
AA43	AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE]	VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	INITIALIZE		

- Start from CONTRAST (key 1) when shifted to this setting screen.
- When a key was pressed, follow the required operation after performing the last memory of current adjustment value.
 Works by the selected COLOR TEMP setting during COLOR TEMP adjustment. However, do not perform the last memory of setting and maintain the "M IDDLE". (Perform last memory of the adjustment value.)

7. INITIALIZE



Display color : White Half tone : Blue (second row / 15th row for each 5 to 36th columns)

Basic Operation

Perform the modification and confirmation of various setting

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	COLOR DET	→EURO→SA→ALL→		×
AA02	2	EEP CHECK	EEPROM writing check		×
AA03	3	ACL SW	$ON \leftrightarrow OFF$		×
AA04	4	INTEGRATOR MODE	→LOCK→UNLOCK→		×
AA05	5	P&P WRITE ENA	For Plug & Play EEPROM writing		×
AA06	6	HOURMETER SET	Set the current hourmeter	Shift to setting screen at SET (AA8A)	0
AA07	7	PULSEMETER SET	Set the pulse hourmeter	Shift to setting screen at SET (AA8A)	0
AA08	8	FINAL SET UP		Execute at SET (AA8A)	×
AA09	9	VIDEO STANDARD	→0→1→2→3→4→5→6→7→8→9→A		×
AA00	10	PC STANDARD	→0→1→2→3→4→5→6→7→8→9→A		×
AA46	11	VIDEO MODE1	→0→1→2→3→4→5→6→7→8→9→A		×
AA47	12	PC MODE1	→0→1→2→3→4→5→6→7→8→9→A		×
AA4D	BS1	EEP DATA READ		Shift to setting screen at SET (AA8A)	0
AA4E	BS3	MASK1		Shift to setting screen at SET (AA8A)	0
AA4F	BS5	MASK2		Shift to setting screen at SET (AA8A)	0
AA50	BS7	МЕМО		Shift to writing screen at SET (AA8A)	0
AA51	BS9	SERVICE PARTS		Execute at SET (AA8A)	×
AA52	BS11	PICTURE DEFAULT		Execute at SET (AA8A)	×
AA53	BS13				
AA54	BS15				
AA96	A .	Select upper item			
AA 97	▼	Select lower item			
AA94	>>	Select the function			
AA95	«	Select the function			
AA8A	SET	Select the item and shift adjustment value and sh	t to lower layer, or store the nift to upper layer.		
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various	REFERENCE		
AA1E	MPX	adjustment / setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	INFORMATION		

Operating specification

- Start from COLOR DET (Key 1) when shifted to this setting screen. However, the movement original item to be selected when shifted from the lower layer.
- When each key was pressed, follow the required operation.
- Perform the last memory of COLOR DET., ACL SW, INTE. MODE, MEMO, VIDEO STANDARD, PC STANDARD, VIDEO MODE1, PC MODE1, HOURMETER SET, PULSEMETER SET, FINAL SET UP, MASK1, MASK2 and PICTURE DEFAULT.

Function description

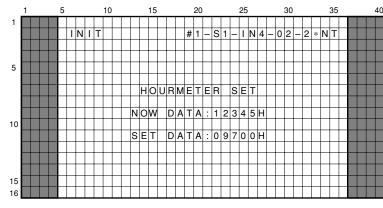
1. COLOR DET. : Set the color detection system.

→ EURO → SA → ALL →

2. EEP CHECK: Check the EEPROM writing

Display lower two places with the hexadecimal number of the result that added data to subaddress 1760-177C (PDC XGA/SHARP data) of EEPROM.

- 3. ACL SW: Set the ACL.
- 4. INTEGRATOR MODE: Set the integrator protection.
- 5. P&P WRITE ENA: Set the writing permission of the EEPROM for Plug & Play.
- 6. HOURMETER SET: Display and set the hourmeter.

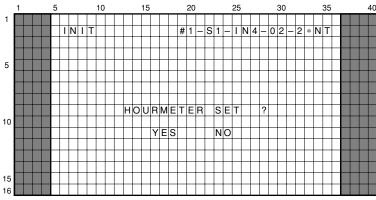


Can change three places of upper rank of SETDATA.

▲▼ : Select numeric value.

 $\ll \gg$: Can select three places of upper rank.

SET: Shift to the setting modification and confirmation screen.



≪≫ : YES/NO selection

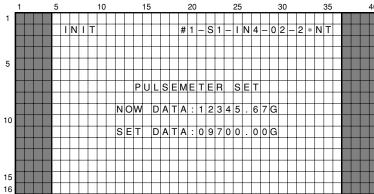
T: Store the SET DATA at YES selection

and shift to INIT screen.

Hold the NOW DATA at NO selection

and shift to INIT screen.

7. PULSEMETER SET: Display and set the pulse meter.



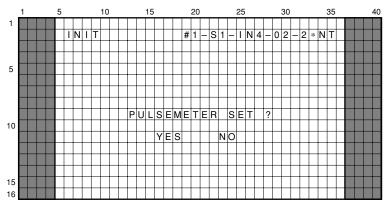
Can change three places of upper rank of SETDATA.

▲▼ : Select numeric value.

≪≫ : Can select three places of upper rank.

SET : Shift to the setting modification

and confirmation screen.



≪≫ SET : YES/NO selection

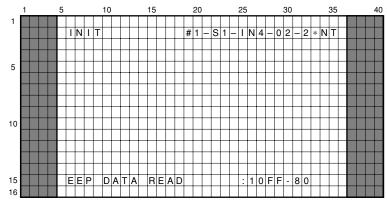
: Store the SET DATA at YES selection and shift to INIT screen. Hold the NOW DATA at NO selection

and shift to INIT screen.

- FINAL SET UP: Setting to the factory shipping state. (Refer to the Final Setup Details.)
- VIDEO STANDARD: Set the peak occurrences of STANDARD (USER MENU / POWER CONTROL) in the video system signal. (Set the following table 1.) Note: Please do not perform the change of setting in the service.
- 10. PC STANDARD: Set the peak occurrences of STANDARD (USER MENU / POWER CONTROL) in the PC system signal. (Set the following table 2.) Note: Please do not perform the change of setting in the service.
- 11. VIDEO MODE1: Set the peak occurrences of MODE1 (USER MENU / POWER CONTROL) in the video system signal. (Set the following table 3.) Note: Please do not perform the change of setting in the service.
- 12. PC MODE1: Set the peak occurrences of MODE1 (USER MENU / POWER CONTROL) in the PC system signal. (Set the following table 4.) Note: Please do not perform the change of setting in the service.

	Current Input Signal		
		VIDEO	PC
	STANDARD mode	Table1	Table2
POWER CONTROL setting	MODE1	Table3	Table4
	MODE2	PL6 (fixed)	

13. EEP DATA READ: Display the each address data of EEPROM.



 $\ll\gg$: Select the address (four places) place.

▲▼ : Select numeric value. SET : Shift to upper layer.

Update display data (hex) every address modification.

Display color : White (Selected address is yellow) Half tone : Blue (second row / 15th row for

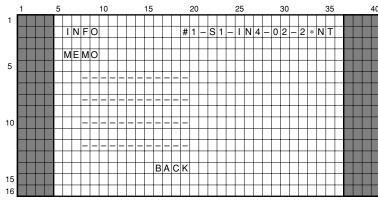
each 5 to 36th columns)

- 14. MASK1: Select the full mask. (Refer to "① MASK1".)
 - Note: Mask 1/2 are commonness and perform one item last memory.
- MASK2: Select the mask pattern. (Refer to "② MASK2".)
 Note: Mask 1/2 are commonness and perform one item last memory.

Caution: (item 14, 15 commonness)

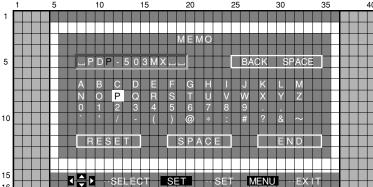
- When key operation is done and performs OSD display, turns OFF FULL MASK for two seconds and display OSD. (common to in all modes)
- In FULL MASK selection (in MASK selection menu), Select the mask and turn off OSD two seconds later of no operation, and MASK screen displays.
- Perform MASK determination (press "SET"), and FULL MASK screen display starts.
- Release of the mask is possible only with "M00" with the RS-232C factory adjustment mode or "MASK OFF" of the service factory menu.
 (Release is impossible with "FULL MASK OFF" of the integrator menu and "FMN" of the RS-232C command.)

16. MEMO: Display and edit the memo data.



<MEMO/SELECT>

- Select MEMO to edit with ▲▼ keys.
 Shift to the <MEMO/EDIT> screen with the SET key.
- When selects BACK and presses the SET key, shift to the upper layer.



<MEMO/EDIT>

- Editing technique refers to the step of INPUT label of the user menu.
- Default is "----- display. (□ shows space.)
- · When "RESET" was pressed, display returns to the default display setting.

17. SERVICE PARTS: Rewrite a PD number of the module microcomputer to the parts recognition number for service.

Refer to "7.1.3 AUTOMATIC BACKUP OF DIGITAL VIDEO ASSY DATA".

For service recognition number: Modify the first column of the PD number to F

Caution: Only the EEPROM for the module microcomputer to modify the service recognition number.

A service identification number of module microcomputer data area in EEPROM for main microcomputer does not rewrite it. Examples: F691 (an original PD number is 5691).

18. PICTURE DEFAULT

- The data which adjusted in the service factory mode reflect as default value of PICTURE. WHITE BAL and SIDE MASK LEVEL of the integrator menu.
- · The value that adjusted in the service factory mode is not reflected to all video output data except the service factory mode so long as does not execute "PICTURE DEFAULT" or "FINAL SÉTUP".
- Execute "PICTURE DEFAULT" after the adjustment for the value that adjusted in the service factory mode is reflected to video output data.

Note: When executed "PICTURE DEFAULT"

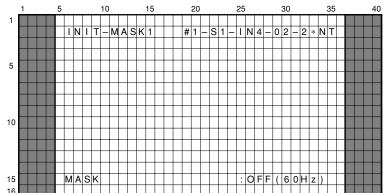
- All the PICTURE items of the user menu are reset.
- PICTURE, WHT BAL and SIDE MASK LEVEL of the integrator menu become default value all in base with the current factory adjustment value.

● FINAL SETUP Details

Items		Initial Setting	Remarks	
Key Remote control inpu	t	•		
Power supply (STANDBY/0	ON)		NO CARE	
Input function		INPUT1		
	VIDEO	WIDE	(In the video signal input) Every each input function	
Coroon oizo		① DOT BY DOT	(In the PC signal input) Every each input function	
Screen size	PC	② 4:3 (incluted TYPE)	and signal mode	
		③ FULL (incluted TYPE)	Priority sequence is $1 \rightarrow 2 \rightarrow 3$	
Vertical position adjustmen	t (V scroll)	0	Every each input function (at VIDEO)	
KEY LOCK		UNLOCK	All insult functions are common	
VOLUME		0	All input functions are common	
User menu setting item		•		
PICTURE		Default value of all adjustment	Every each input function and signal mode	
SCREEN		Default value of all adjustment	Every each input function and signal mode (at PC)	
INPUT LABEL		□INPUT∗□	(*: 1 to 5). Every each input function	
AUTO POWER OFF		OFF	Every each input function	
POWER MANAGEMENT		OFF	INPUT1 (at PC) /5	
COLOR TEMP		MIDDLE		
DIGITAL NR		LOW	Every each input function (at VIDEO)	
HIGH CONTRAST		OFF	7	
PURECINEMA		OFF	Every each input function (at 525i (NTSC))	
COLOR SYSTEM		AUTO	Every each INPUT3/4	
CLAMP POSITION		AUTO	Every each INPUT1/2	
3D Y/C MODE		MOTION	INPUT 4	
CETTING		VGA (at mode03, 31, E1)		
SETTING		XGA (at mode61, 71, 63, 73)	Every INPUT 1/2	
VIDEO SIGNAL		RGB		
POWER CONTROL		STANDARD	(VIDEO/PC) All input functions are common	
AUTO FUNCTION		OFF	All insulations are common	
AUDIO OUT		FIXED	All input functions are common	
Integrator menu setting it	tem	•		
PICTURE		Default value of all adjustment items		
WHITE BALANCE		Default value of all adjustment items	Every each input function and signal mode	
SCREEN		Default value of all adjustment items	7	
2×2 MODE		OFF/Upper left	From a sale insult from the	
DDT ENHANCE	VIDEO	OFF	Every each input function	
BRT. ENHANCE	PC	OFF	Every each function that the PC input is possible	
HDTV MODE		1035i	All input functions are common	
VIDEO INPUT		COMPONENT1	750p/1125i/1125p	
VIDEO IINFOT		COMPONENT2	525i/525p/625i/625p	
SUB VOLUME		60	Every input function	
OSD		ON	Set is common	
BAUD RATE		4800BPS	Jet is continuit	
TIMER		OFF/1/0.0/WHT	(Setting/Timer time/Mask time/mask color) All input functions are common	

Items		Initial Setting	Remarks
FULL MASK		OFF	
	R LEVEL	Default value	
SIDE MASK	G LEVEL	Default value	
	B LEVEL	Default value	Set is common
MASK CONTROL		ON	
ORBITER MODE		OFF	
INVERSE MODE		OFF	
COLOR MODE		MODE1	Set is common
MIRROR MODE		OFF	
FAN CONTROL		AUTO	
MONITOR NAME			Set is common
ID NO SET			
SLOT INPUT		VIDEO (RGB)	
Factory Setting Item			
INTE MODE		UNLOCK	
MASK1/2 setting		OFF	Set is common
ACL SW		ON	
COLOR DET			NO CARE
RS-232C Setting Item			
VIDEO MUTE		OFF	
LED		ON	Set is common
100% display		OFF	

1 MASK1



Display color: White

Half tone Blue (second row / 15th row for

each 5 to 36th columns)

Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	MASK OFF		OFF	×
AA02	2	MASK51		White	×
AA03	3	MASK52		Cyan 274	×
AA04	4	MASK53		Mazenta 1023	×
AA05	5	MASK54		Flesh color	×
AA06	6	MASK55		Cyan 1023	×
AA07	7	MASK56		Light purple	×
AA08	8	MASK57		Sky blue	×
AA09	9	MASK58		Red	×
AA00	10	MASK59		Green	×
AA46	11	MASK60		Blue	×
AA47	12	MASK61		Black	×
AA4D	BS1	MASK62		Red 779	×
AA4E	BS3	MASK63		Reservation	×
AA4F	BS5	MASK64		Reservation	×
AA50	BS7	MASK65		Reservation	×
AA51	BS9	MASK66		Reservation	×
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select the upper item			
AA97	▼	Select the lower item			
AA94	>>	Select free-running frequency	••→50Hz→60Hz→70Hz→••	Default is 60 Hz	
AA95	«	Select free-running frequency	••→50Hz→60Hz→70Hz→••	Default is 60 Hz	
AA8A	SET	Store the selected item and shift to upper layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various adjustment /	REFERENCE		
AA1E	MPX	setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM	1	INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	INFORMATION		

Operating specification

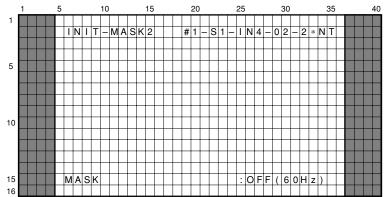
- Start from MASK OFF (Key1) when shifted to this setting screen. However, set MASK position is a default when sets an either mask already.
 When entered this mode by the state that either MASK set of MASK2, setting of MASK2 is off, and MASK 1 starts from MASK OFF (Key1).
 When a key was pressed, follow the required operation after performed the last memory of the current adjustment value.

Caution: In the MASK setting, do not display the OSD.

When other operations were selected, perform OSD display after MASK OFF for two seconds.

Then return to selected FULL MASK display.

(2) MASK2



Display color: White

Half tone : Blue (second row / 15th row for

each 5 to 36th columns)

Basic Operation

Perform the adjustment of each parameter.

Rem Code	Key Name	Function & Display	Description	Remarks	Lower Layer
AA01	1	MASK OFF	-	OFF	×
AA02	2	MASK 01		Pattern 1 (Ramp)	×
AA03	3	MASK 02		Pattern 2 (Color-bar)	×
AA04	4	MASK 03		Pattern 3 (Slanting line)	×
AA05	5	MASK 04		Pattern 4 (For W/B Lo-Light adjustment 1/5Window (14%, 56%))	×
AA06	6	MASK 05		Pattern 5 (For W/B Lo-Light adjustment 1/5Window (Pred, Skin))	×
AA 07	7	MASK 06		Pattern 6 (For W/B Peak adjustment 1/5Window (100%))	×
AA08	8	MASK 07		Pattern 7 (Peak signal : For peak measurement and adjustment 1/5Window (100%))	×
AA09	9	MASK 08		Pattern 8 (Reservation)	×
AA00	10	MASK 09		Pattern 9 (For scan IC protection test Window-A)	×
AA46	11	MASK 10		Pattern 10 (For scan IC protection test Window-B)	×
AA47	12	MASK 11		Pattern 11 (Reservation)	×
AA4D	BS1	MASK 12		Pattern 12 (Reservation)	×
AA4E	BS3	MASK 13		Pattern 13 (Reservation)	×
AA4F	BS5	MASK 14		Pattern 14 (Reservation)	×
AA50	BS7				
AA51	BS9				
AA52	BS11				
AA53	BS13				
AA54	BS15				
AA96	A	Select the upper item			
AA97	▼	Select the lower item			
AA94	>>	Select free-running frequency	••→50Hz→60Hz→70Hz→••	Default is 60 Hz	
AA95	«	Select free-running frequency	••→50Hz→60Hz→70Hz→••	Default is 60 Hz	
AA8A	SET	Store the selected item and shift to upper layer			
AAD3-AF70 AA4A	AUDIO DISPLAY CALL		INFORMATION		
AA1D	SURROUND MODE		RANGE CHECK		
AA59 AA43	AV SELECT AV MEMORY	Shift to various adjustment /	REFERENCE		
AA1E	MPX	setting screen.	OFFSET		
AAD3-AF3C	SCREEN SIZE		VIDEO OPTION		
AAD3-AF36 AAD3-AF22	FULL AUTO ZOOM P.ZOOM		INITIALIZE		
AA49	MUTING	Shift to next adjustment / setting screen.	INFORMATION		

Operating specification

- Start from MASK OFF (Key1) when shifted to this setting screen. However, set MASK position is a default when sets an either mask already.
 When entered this mode by the state that either MASK set of MASK1, setting of MASK1 is off, and MASK 1 starts from MASK OFF (Key1).
 When a key was pressed, follow the required operation after performed the last memory of the current adjustment value.
 Caution: In the MASK setting, do not display the OSD.

When other operations were selected, perform OSD display after MASK OFF for two seconds. Then return to selected MASK display.

● Cassification 1 of Input Signal Mode (VIDEO)

SIG Mode	Signal Type	OSD display	V. Frequency fv (Hz)	H. Frequency fh (Hz)	Display Pixel Number	INPUT5 (DVI input) Correspondence
00 • 5 00 • 6 00 • 7 00 • 8 00 • 9	SDTV • 625i (PAL/SECAM)	(100% tentative) 4:3 FULL ZOOM WIDE	50	15.6	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (no-correspondence)
01 · 5 01 · 6 01 · 7 01 · 8 01 · 9	SDTV • 625p (PAL • Progressive)	(100% tentative) 4:3 FULL ZOOM WIDE	50	31.2	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (no-correspondence)
02·5 02·6 02·7 02·8 02·9	SDTV • 525i (NTSC/4.43NTSC)	(100% tentative) 4:3 FULL ZOOM WIDE	60	15.7	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (no-correspondence)
03 · 5 03 · 6 03 · 7 03 · 8 03 · 9	SDTV • 525p (NTSC • Progressive)	(100% tentative) 4:3 FULL ZOOM WIDE	60	31.5	1280 × 768 984 × 768 1280 × 768 1280 × 768 1280 × 768	× (no-correspondence)
11 • 5 11 • 7	HDTV • 1125i (1080 number of effective scanning lines)	(100%) FULL	50	28.1	1280 × 768 1280 × 768	× (no-correspondence)
12 • 5 12 • 7	HDTV • 1125i (1080 number of effective scanning lines)	(100%) FULL	60	33.8	1280×768 1280×768	× (no-correspondence)
13 • 5 13 • 7	HDTV • 1125i (1035 number of effective scanning lines)	(100%) FULL	60	33.8	1280 × 768 1280 × 768	× (no-correspondence)
14 • 5 14 • 7	HDTV • 750p (720 number of effective scanning lines)	(100%) FULL	60	45.0	1280 × 768 1280 × 768	× (no-correspondence)
15 • 5 15 • 7	HDTV • 1125p (1080 number of effective scanning lines)	(100%) FULL	60	67.5	1280 × 768 1280 × 768	× (no-correspondence)

Classification 2 of Input Signal Mode (PC)

SIG Mode	Signal Type	OSD Display	V. Frequency v (Hz)	H. Frequency h (Hz)	Display Pixel Number	INPUT5 (DVI input) Correspondence
20 • 2	640 × 400	FULL	56	24.8	1280 × 768	× (non-correspondence)
23 • 2	640 × 400	FULL	70	31.5	1280 × 768	△ (correspond informally)
31 • 0 31 • 1 31 • 2	640 × 480	DOT BY DOT 4:3 FULL	60	31.5	640 × 480 1024 × 768 1280 × 768	O (correspondence)
32 • 0 32 • 1 32 • 2	640 × 480	DOT BY DOT 4:3 FULL	66	35.0	640 × 480 1024 × 768 1280 × 768	△ (correspond informally)
34 • 0 34 • 1 34 • 2	640 × 480	DOT BY DOT 4:3 FULL	72	37.9	640 × 480 1024 × 768 1280 × 768	△ (correspond informally)
35 • 0 35 • 1 35 • 2	640 × 480	DOT BY DOT 4:3 FULL	75	37.5	640 × 480 1024 × 768 1280 × 768	△ (correspond informally)
36 • 0 36 • 1 36 • 2	640 × 480	DOT BY DOT 4:3 FULL	85	43.3	640 × 480 1024 × 768 1280 × 768	△ (correspond informally)
40 • 4 40 • 1 40 • 2	800 × 600	DOT BY DOT 4:3 FULL	56	35.1	800 × 600 1024 × 768 1280 × 768	O (correspondence)
41 • 0 41 • 1 41 • 2	800 × 600	DOT BY DOT 4:3 FULL	60	37.9	800 × 600 1024 × 768 1280 × 768	O (correspondence)
44 • 0 44 • 1 44 • 2	800 × 600	DOT BY DOT 4:3 FULL	72	48.1	800 × 600 1024 × 768 1280 × 768	△ (correspond informally)
45 • 0 45 • 1 45 • 2	800 × 600	DOT BY DOT 4:3 FULL	75	46.9	800 × 600 1024 × 768 1280 × 768	△ (correspond informally)
46 • 0 46 • 1 46 • 2	800 × 600	DOT BY DOT 4:3 FULL	85	53.7	800 × 600 1024 × 768 1280 × 768	△ (correspond informally)
55 • 0 55 • 1 55 • 2	832 × 624	DOT BY DOT 4:3 FULL	75	49.7	832 × 624 1024 × 768 1280 × 768	△ (correspond informally)
61 • 1 61 • 2	1024 × 768	DOT BY DOT FULL	60	48.4	1024 × 768 1280 × 768	O (correspondence)
63 • 1 63 • 2	1024 × 768	DOT BY DOT FULL	70	56.5	1024 × 768 1280 × 768	△ (correspond informally)
65 • 1 65 • 2	1024 × 768	DOT BY DOT FULL	75	60.0	1024 × 768 1280 × 768	△ (correspond informally)
66 • 1 66 • 2	1024 × 768	DOT BY DOT FULL	85	68.7	1024 × 768 1280 × 768	△ (correspond informally)
70 • 2	1280 × 768	DOT BY DOT	56	45.1	1024 × 768	O (correspondence)
71 • 2	1280 × 768	DOT BY DOT	60	48.1	1024 × 768	O (correspondence)
73 • 2	1280 × 768	DOT BY DOT	70	55.5	1024 × 768	△ (correspond informally)

SIG Mode	Signal Type	OSD Display	V. Frequency v (Hz)	H. Frequency h (Hz)	Display Pixel Number	INPUT5 (DVI input) Correspondence
81 • 1 81 • 2	1152 × 864	4 : 3 (TYPE) FULL (TYPE)	60	53.7	1024 × 768 1280 × 768	O (correspondence)
84 • 1 84 • 2	1152 × 864	4 : 3 (TYPE) FULL (TYPE)	72	64.9	1024 × 768 1280 × 768	△ (correspond informally)
85 • 1 85 • 2	1152 × 864	4:3 (TYPE) FULL (TYPE)	75	67.5	1024 × 768 1280 × 768	△ (correspond informally)
95 • 1 95 • 2	1152 × 870	4:3 (TYPE) FULL (TYPE)	75	68.7	1016 × 768 1280 × 768	△ (correspond informally)
A2 • 1 A2 • 2	1152 × 900	4 : 3 (TYPE) FULL (TYPE)	66	62.0	984 × 768 1280 × 768	△ (correspond informally)
A5 • 1 A5 • 2	1152 × 900	4 : 3 (TYPE) FULL (TYPE)	76	71.7	984 × 768 1280 × 768	△ (correspond informally)
B1 • 1 B1 • 2	1280 × 960	4 : 3 (TYPE) FULL (TYPE)	60	60.0	1024 × 768 1280 × 768	O (correspondence)
C1 • 1 C1 • 2 C1 • 3	1280 × 1024	4 : 3 (TYPE) FULL (TYPE) PARTIAL	60	64.0	960 × 768 1280 × 768 1280 × 768	O (correspondence)
C5 • 1 C5 • 2	1280 × 1024	4 : 3 (TYPE) FULL (TYPE)	75	80.0	960 × 768 1280 × 768	× (non-correspondence)
C6 • 1 C6 • 2	1280 × 1024	4 : 3 (TYPE) FULL (TYPE)	85	91.1	960 × 768 1280 × 768	× (non-correspondence)
D1 • 1 D1 • 2	1600 × 1200	4:3 (TYPE) FULL (TYPE)	60	75.0	1024 × 768 1280 × 768	× (non-correspondence)
D2 • 1 D2 • 2	1600 × 1200	4:3 (TYPE) FULL (TYPE)	65	81.3	1024 × 768 1280 × 768	× (non-correspondence)
D3 • 1 D3 • 2	1600 × 1200	4:3 (TYPE) FULL (TYPE)	70	87.5	1024 × 768 1280 × 768	× (non-correspondence)
D5 • 1 D5 • 2	1600 × 1200	4 : 3 (TYPE) FULL (TYPE)	75	93.8	1024 × 768 1280 × 768	× (non-correspondence)
D6 • 1 D6 • 2	1600 × 1200	4:3 (TYPE) FULL (TYPE)	85	106.3	1024 × 768 1280 × 768	× (non-correspondence)
E1 • 1 E1 • 2	852 × 480	DOT BY DOT FULL	60	31.7	852 × 480 1280 × 768	O (correspondence)

6.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■RGB Assy

• When repaired

- Adjustment is impossible when replaced the Matrix IC or AD/PLL/AMP IC.
- 2. Adjustment is unnecessary in case of others.

When replaced

White balance adjustment

■SW POWER SUPPLY Module

• When replaced

No adjustment required.

■ DIGITAL VIDEO Assy

When repaired

No adjustment required.

• When replaced

- Adjustment is unnecessary when replaced only the DIGITAL VIDEO Assy.
- 2. When replaced it with RGB Assy simultaneously, remove IC1204 (24LC04(1) SN-TBB) from the former PC Board to replace, and install it to the new PC Board.
- 3. When use new Assy which replaces it and recovered as service parts once again, replace IC1204 with new IC.

■ Y DRIVE Assy

When repaired

- 1. VOFS/VH/IC5V voltage adjustment
- 2. Timing adjustment of pulse module

When replaced

- 1. SUSB ground timing adjustment
- 2. Panel white balance adjustment

■ X DRIVE Assy

• When repaired

- 1. VRN voltage adjustment
- 2. Timing adjustment of pulse module

When replaced

- 1. SUSB ground timing adjustment
- 2. Panel white balance adjustment

■ Video Card (PDA-5002)

• When repaired

- 1. Y LEVEL adjustment
- 2. Color difference and TINT adjustment

When replaced

No adjustment required.

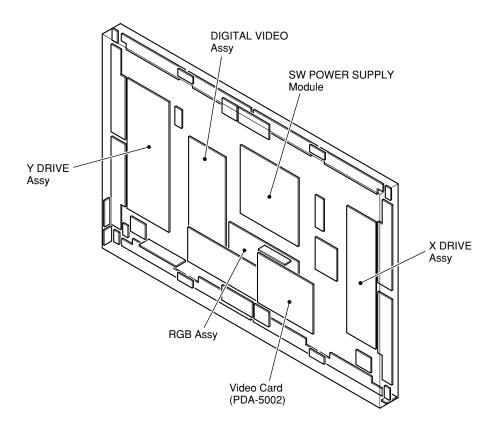


Fig. 1 PC Board Location (rear side view)

6.3 ADJUSTMENT

6.3.1 Video Card Adjustment

- Adjust after controlling each IC.
- Perform it from step 1 to step 6 every each input signal.

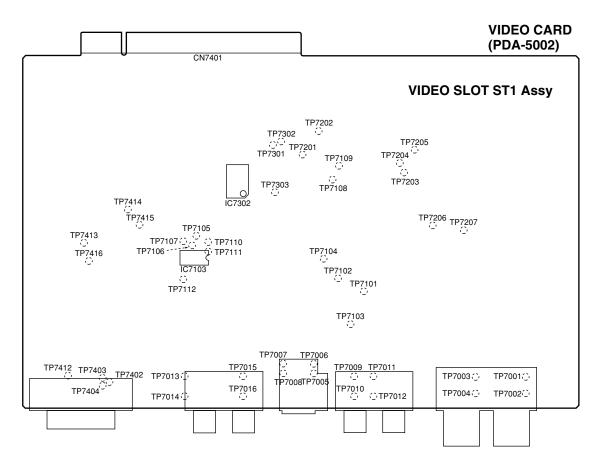
Step	Adjustment Item	Input Signal	Control	Measuring Point	Adjusting Value	Adjusting Method
1	Y Level Adjustment (IC7130)(SA83)	RAMP	IC7302	CN7401-pin 3	700mVp-p	Adjust Level so that the peak to peak of waveform becomes 700 mVp-p.
2	R-Y Offset Adjustment (IC7130)(SA88)	Color-Bar	IC7302	CN7401-pin 7	525mVp-p	a: Adjust Offset so that the pedestal level becomes fixed. b: Adjust Level so that the peak to peak of waveform becomes 525 mVp-p. b 525mVp-p
3	B-Y Offset Adjustment (IC7130)(SA88) TINT Adjustment	Color-Bar	IC7302	CN7401-pin 5	525mVp-p	a: Adjust Offset so that the pedestal level becomes fixed. b: Adjust TINT so that the height ratio of each stair step waveform becomes fixed. c: Adjust Level so that the peak to peak of waveform becomes 525 mVp-p. b c 525mVp-p
5	R-Y Level Adjustment (IC7103) (SA101)	Color-Bar	IC7103	CN7401-pin 7	525mVp-p	a: Adjust Offset so that the pedestal level becomes fixed. b: Adjust Level so that the peak to peak of waveform becomes 525 mVp-p.
6	B-Y Level Adjustment (IC7103) (SA100)	Color-Bar	IC7103	CN7401-pin 5	525mVp-p	a: Adjust Offset so that the pedestal level becomes fixed. b: Adjust TINT so that the height ratio of each stair step waveform becomes fixed. c: Adjust Level so that the peak to peak of waveform becomes 525 mVp-p. b b c 525mVp-p

Each adjustment value which adjusted, store the adjustment data in IC7104.

Operating Check

After each adjustment was completed, confirm the following signals are output rightly.

- INPUT3 input signal
- INPUT4 input signal
- INPUT5 input signal
- Signal distinction circuit operation
- Audio signal



Adjustment Points

6.3.2 Main Unit Adjustment

■ VOFS/VH/IC5V Voltage Adjustment

Input Signal	Signal Adjusting Point Adjusting Me							hod			
input Signal	VR2701 (VOFS) (Y DRIVE Assy)	2. Set this adju 3. Adjust VR27 45V. 4. Return it to t Method 2 1. Read the ad	a adjustment stment value 01 so that the he value that justment valu 01 so that the	value of V to center e voltage b wrote dow	-OFFSET of (128). vn a adjustm	f REF-DIG n 701 (VOFS) nent value of F-DIG mode	and K270 V-OFFSE in the fac	·			
White 100%	(T DITIVE ASSY)	VOF032									
	VR2703 (VH) (Y DRIVE Assy)	VH (voltage for scan IC) Adjustment Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes 10 PSUS (=GNDH) is a floating GND and the electric potential is different from that GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because the damage the unit. The symptom is case of mis-adjustment If the VH adjustment is not performed properly, dots like blinking luminance point deviated greatly from the right adjustment point, panel will light white.									
	VR2702 (IC5V) (Y DRIVE Assy) Note : Be sure to measure between	IC5V Adjustment Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0.1V. PSUS (=GNDH) is a floating GND and the electric potential is different from that of chassis GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.									

■ Sustain Pulse Waveform Adjustment

Input Signa	Adjusting Point	Adjusting Method
White 100%	REF_DIG mode in Factory mode X-SUS-B : key 9 Y-SUS-B : key 11	X-SUS-B, Y-SUS-B Adjustment Set to the indicated value with a key on the remote control unit. (Refer to "Timing adjustment of control signal of X and Y Drive Assys".)

■ VRN Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	VR3701 (VRN) (X DRIVE Assy)	VRN (minus reset voltage adjustment) Adjust so that the voltage between K3707 (VRN) and K3702 (SUS-GND) becomes -300V \pm 1.0V.

■ Panel White Balance Adjustment

Input Signal	Adjusting Point		Adjusting Method					
		In thi	s tim	ory mode as follows; y mode. olor-difference meter (A-100)				
		MASK Left Side MASK Right Side						
		x 295 291						
		у 306 300						
		_				•		

■ Mask Level Adjustment

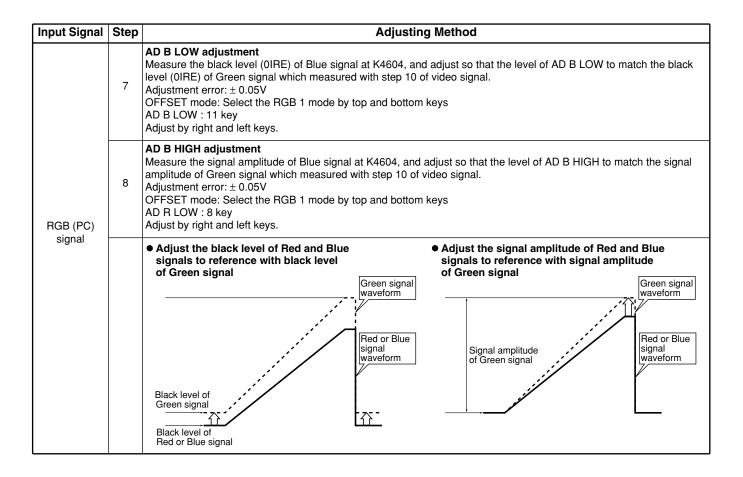
Input Signal	Adjusting Point	Adjusting Method
	VIDEO OPTION mode in Factory mode SIDE MASK LEV. R SIDE LEVEL: key 1 G SIDE LEVEL: key 2 B SIDE LEVEL: key 3	Side mask color / Level Adjustment Set the indicated value with the keys on the remote control unit.

■ White Balance Adjustment

- Video Card (PDA-5002 equivalency) is necessary for white balance adjustment for Video signal of RGB Assy.
 Adjust with Video system signal (525i) and RGB (PC VGA) signal.
 Adjust so that the Red and Blue signals becomes the same level and amplitude by reference with Green signal.

Input Signal	Step	Adjusting Method							
	1	Connect a Video card in RGB Assy through a jig cable, and set it in the state that RGB Assy can measure. (Refer to page 133 "Diagnosis of the Video Card (PDA-5002)".) Cannot measure the signal level that does not use a jig cable. Note: Be careful in the direction of connector of a jig cable.							
	2	Input a 525i signal to INPUT1 or INPUT2 with a component signal. A signal pattern is only luminance signal such as lamp signal and a STEP signal. And use the signal which black level (0IRE) and gradation can confirm. Note: May use a standard NTSC Video signal as Y (luminance) signal of component signal.							
	3	In the signal input function (INPUT1 or INPUT2), perform the display mode of VIDEO signal to component. $MENU \rightarrow SETUP \rightarrow VIDEO SIGNAL : COMPONENT$							
	4	Turn to standby once, and perform power supply ON with the factory mode once again. $ MENU \to SET \to POWER \ ON $							
	5	Turn ACL SW setting to OFF. INITIALIZE mode ACL SW: 3 key Select OFF by right and left keys.							
	6	Decrease three steps of MAT CONT adjustment value of OFFSET-RGB1. OFFSET mode: Select the RGB 1 mode by top and bottom keys MAT CONT: 1 key Decrease three steps of adjustment value by right and left keys.							
	7	Decrease two steps of MAT BRIGHT adjustment value of OFFSET-RGB1. OFFSET mode: Select the RGB 1 mode by top and bottom keys MAT BRIGHT: 2 key Decrease two steps of adjustment value by right and left keys.							
Video signal	8	Take a trigger of oscilloscope with HD_PLL (3.3Vp-p) of K4805.							
Trade digital	9	Measure a signal waveform of Green signal at K4603, and measure the black level (0IRE) of signal and signal amplitude.							
	10	AD R LOW adjustment Measure the black level (0IRE) of Red signal at K4602, and adjust so that the level of AD R LOW to match the black level (0IRE) of Green signal which measured with step 10. Adjustment error: ± 0.05V OFFSET mode: Select the RGB 1 mode by top and bottom keys AD R LOW: 9 key Adjust by right and left keys.							
	11	AD R HIGH adjustment Measure the signal amplitude of Red signal at K4602, and adjust so that the level of AD R HIGH to match the signal amplitude of Green signal which measured with step 10. Adjustment error: ± 0.05V OFFSET mode: Select the RGB 1 mode by top and bottom keys AD R HIGH: 6 key Adjust by right and left keys.							
	12	AD B LOW adjustment Measure the black level (0IRE) of Blue signal at K4604, and adjust so that the level of AD B LOW to match the black level (0IRE) of Green signal which measured with step 10. Adjustment error: ± 0.05V OFFSET mode: Select the RGB 1 mode by top and bottom keys AD B LOW :11 key Adjust by right and left keys.							
	13	AD B HIGH adjustment Measure the signal amplitude of Blue signal at K4604, and adjust so that the level of AD B HIGH to match the signal amplitude of Green signal which measured with step 10. Adjustment error: ± 0.05V OFFSET mode: Select the RGB 1 mode by top and bottom keys AD B HIGH: 8 key Adjust by right and left keys.							

Input Signal	Step	Adjusting Method							
		Adjust the black level of Red and Blue signals to reference with black level of Green signal	Adjust the signal amplitude of Red and Blue signals to reference with signal amplitude of Green signal Green signal waveform Green signal waveform Red or Blue signal Signal amplitude Red or Blue signal						
Video signal		Black level of Green signal Black level of Red or Blue signal	of Green signal waveform waveform						
	14	Increase three steps of MAT CONT adjustr OFFSET mode: Select the RGB 1 mode by to MAT CONT: 1 key Increase three steps of adjustment value by r	op and bottom keys						
	15	Increase two steps of MAT BRIGHT adjust OFFSET mode: Select the RGB 1 mode by to MAT BRIGHT: 2 key Increase two steps of adjustment value by rig	op and bottom keys						
	16	Turn ACL SW setting to ON. INITIALIZE mode ACL SW: 3 key Select ON by right and left keys.							
	1	Input a RGB (PC) signal to INPUT1 or INPUT A signal pattern is only luminance signal such And use the signal which black level (0IRE) a • Recommended signal: VESA VGA@60Hz	as lamp signal and a STEP signal.						
	2	Turn to standby once, and perform power sup MENU \rightarrow SET \rightarrow POWER ON	oply ON with the factory mode once again.						
	3	Take a trigger of oscilloscope with HD_PLL (3	3.3Vp-p) of K4805.						
	4	Measure the signal waveform of Green signal amplitude.	at K4603, and measure the black level (0IRE) of signal and signal						
RGB (PC) signal	5	AD R LOW adjustment Measure the black level (0IRE) of Red signal at K4602, and adjust so that the level of AD R LOW to match the black level (0IRE) of Green signal which measured with step 10 of video signal. Adjustment error: ± 0.05V OFFSET mode: Select the RGB 1 mode by top and bottom keys AD R LOW: 9 key Adjust by right and left keys.							
	6	AD R HIGH adjustment Measure the signal amplitude of Red signal a amplitude of Green signal which measured w Adjustment error: ± 0.05V OFFSET mode: Select the RGB 1 mode by to AD R HIGH: 6 key Adjust by right and left keys.							



■ Color Balance Adjustment

SOLON Key 3 TINT : key 4 is not natural, adjust it with the keys on the remote control unit.	Input Signal	Adjusting Point	Adjusting Method								
White Balance 80% window-step signal (-3dB) White Balance 80% window-step signal (-3dB) Window chroma signal Window chroma signal Window chroma signal Window chroma signal	Fresh color	in Factory mode COLOR: key 3	After adjusting the white balance, check the flesh color of figures in LD still pictures. If the color								
White Balance 80% window-step signal (-3dB) White Balance 80% window-step signal (-3dB) Window step signal (-3dB) X 298 299 302 Y 307 315 308 Y 6.6 5.7 2.9 X 293 292 297 Y 309 312 319 Y 135 148 66.2 Y 135 148 66.2 X 430 427 -			Reference :	Adjustment values using the	Med	ia color-c	differend	ce meter	(A-100)		
White Balance 20% window-step signal (-3dB) y 307 315 308		NTSC HD PC									
White Balance (-3dB) (y 307 315 308 Y 6.6 5.7 2.9 x 293 292 297 y 309 312 319 Y 135 148 66.2		000/ 1 1 1	х	298	299	302					
White Balance Window chroma signal Y 6.6 5.7 2.9 80% window-step signal (-3dB) x 293 292 297 y 309 312 319 Y 135 148 66.2 X 430 427 -				, ,	у	307	315	308			
80% window-step signal (-3dB) Y 135 148 66.2			White		Υ	6.6	5.7	2.9			
(-3dB)			Balance	000/	х	293	292	297			
Y 135 148 66.2							312	319			
Window chroma signal				(Sdb)	Υ	135	148	66.2			
Color Window Chroma signal			Flesh	Mindow shrama signal	Х	430	427	_			
Color y 365 362 -			Color	vvindow chroma signal	у	365	362	_			

■ Timing Adjustment of X and Y DRIVE Assys Control Signal

Purpose

- Pulse module loads in DRIVE Assy as one of heat measures of DRIVE Assy. Adjust the drive timing of the pulse module driving parallel with VR.
- Pulse module has each peculiar delay time. Readjustment is necessary when replaced the pulse module in the X and Y DRIVE Assys.

Adjustment Method

CR delay circuit is each inserted on signal path of four control signals (SUS-U, SUS-B, SUS-D, SUS-G) driving the pulse module.

Quantity of delay can adjust pulse module of one side with VR.

Adjust VR while measuring a waveform of the pulse module, and match a timing.

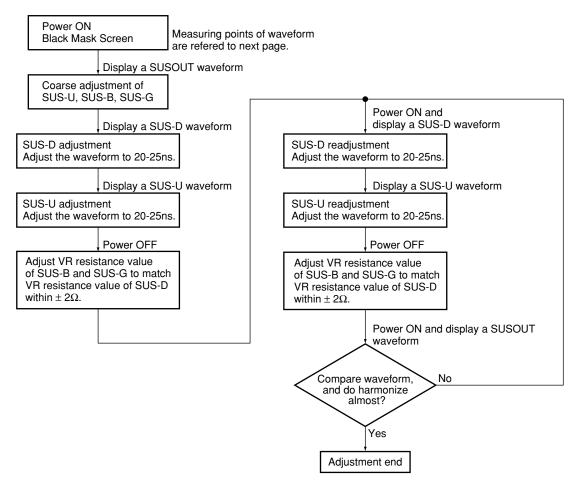
Adjustment VR

	X DRIVE	Y DRIVE
SUS-U VR3203		VR2204
SUS-D VR3202		VR2203
SUS-B	VR3201	VR2202
SUS-G	VR3200	VR2201

Test pin for adjustment and measurment

Pulse Module	X DRIVE		/E Y DRIVE	
	Upper	Lower	Upper	Lower
SUSOUT	K3105	K3106	K2212	K2203
SUS-U	K3200	K3204	K2220	K2224
SUS-D	K3108	K3205	K2207	K2225

• Adjustment Procedure



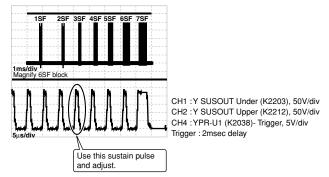
As for this adjustment, adjustment with set state is difficult. Therefore replace it every Assy when replacing the pulse module.

Measuring Waveform of Pulse Module Timing Adjustment

Timing adjustment of the pulse module control signal adjusts with the sustain pulse of eighth pulse (X DRIVE) and the ninth pulse (Y DRIVE) from the back of 6SF.

Measuring point of waveform

Y DRIVE SUSOUT waveform

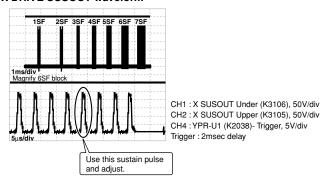


- Perform adjustment of waveform with a black mask screen.
- It is easy to adjust when turned field AB offset to OFF (RS-232C command: OCN) in adjustment.

Note:

- Sampling rate of oscilloscope sets it more than 500MS/s in order to perform ns order adjustment.
- Collecting calibration of probe before adjustment by all means.
- Connect GND of probe measuring waveform to SUSGND terminal by all means.
- Precise waveform is not displayed, and an adjustment gap may occur that does not collect GND properly.

X DRIVE SUSOUT waveform

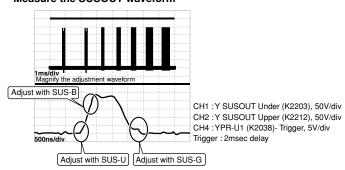


When took waveform be each drive Assy unit, measure it at the fourth sustain pulse from the back except for a large width sustain pulse.

Therefore, when measured both waveform of the X and Y drives together, it becomes the sustain pulse of 8 and 9 pulses from the back.

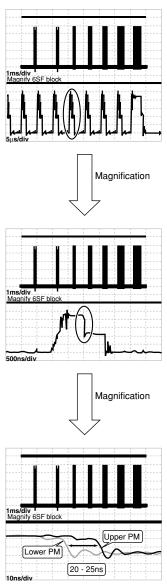
Waveform coarse adjustment

Measure the SUSOUT waveform



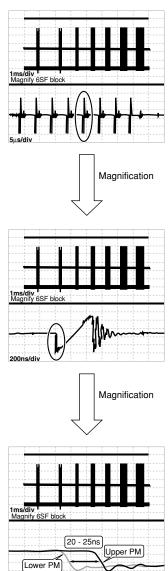
When there is a gap with waveform of CH1 / CH2 of the part which enclosed in the following circle, adjust required VR to overlap the waveform.

SUS-D Adjustment (Y DRIVE)



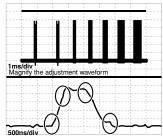
CH1:Y SUS-D Under (K2225), 50V/div CH2:Y SUS-D Upper (K2207), 50V/div CH4:YPR-U1 (K2038)-Trigger, 5V/div Trigger: 2msec delay

SUS-U Adjustment (Y DRIVE)



CH1:Y SUS-U Under (K2224), 50V/div CH2:Y SUS-U Upper (K2220), 50V/div CH4:YPR-U1 (K2038)-Trigger, 5V/div Trigger: 2msec delay

Waveform Confirmation in Adjustment completion Measure the SUSOUT waveform



CH1:Y SUSOUT Under (K2203), 50V/div CH2:Y SUSOUT Upper (K2212), 50V/div CH4:YPR-U1 (K2038)-Trigger, 5V/div Trigger: 2msec delay

Caution:

Not absolutely mistaking upper

and lower of waveform.

Confirm it to waveform of CH1 / CH2 of the part which enclosed in the following circle whether there is not a large gap. (A gap of the quantity that shifts 20nS and adjusted remains.)

When adjust in the power supply ON state, change so that the quantity of gap that adjusted by temperature-rise of the pulse module becomes small.

Therefore, perform high power OFF (RS-232C command: DRF) except measurement time of waveform when adjusts, and adjustment error by temperature-rise does not occur.

■ SUS-B Ground Timing Adjustment

It is necessary to readjust this adjustment when replaced the X or Y DRIVE Assy and the pulse module.

• Measurement point and method

Measurement point of waveform of X and Y DRIVE Assy in timing adjustment is test pin of SUSOUT of the pulse module of bottom of the main unit.

X DRIVE Assy: K3106 Y DRIVE Assy: K2203

Measurement screen: White mask

The measurement is easy to perform when turns field AB alternation to OFF. (RS-232C command: OCN)

Measure a sustain pulse of the fourth pulse (X DRIVE) and the fifth pulse (Y DRIVE) from the back of the fourth FS, and adjust. In the start section of this sustain pulse, waveform has inflection point with the timing when SUS-B becomes ON. Adjust so that the voltage of this inflection point is the nearest to 150V and do not become less than 150V.

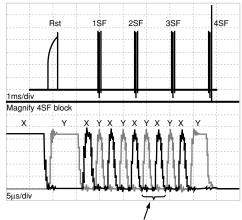
Adjustment parameter

X DRIVE: XSUSB (RS-232C command : XSB) Y DRIVE: YSUSB (RS-232C command : YSB)

Note:

- Connect GND of probe measuring waveform to SUSGND terminal by all means.
- · Precise waveform is not displayed, and an adjustment gap may occur that does not collect GND properly.

Waveform in the measurement

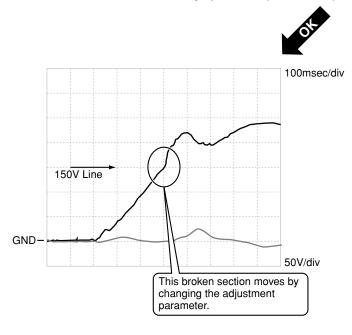


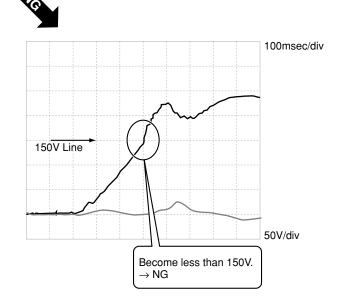
CH1 :Y SUSOUT (K2203), 50V/div CH2 : X SUSOUT (K3106), 50V/div CH4 :YPR-U1 (K2038)- Trigger, 5V/div

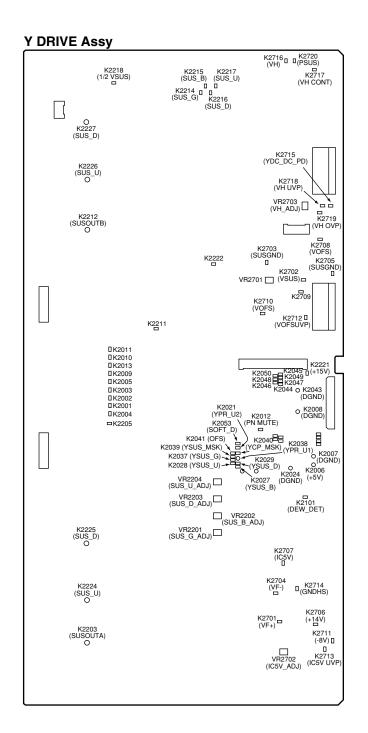
Trigger: 2msec delay

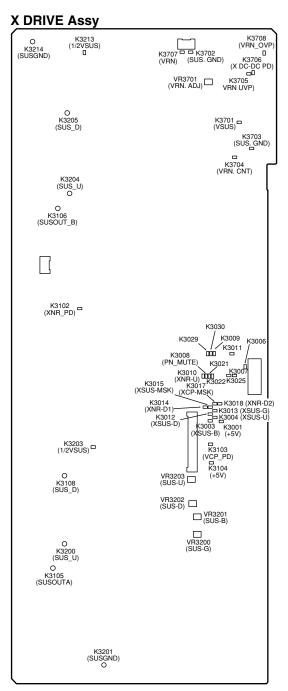
Measure a waveform of this section and adjust.

Magnify the fourth pulse sustain pulse (XSUSOUT waveform) from the back of the above waveform.









6.4 COMMAND

6.4.1 RS-232C COMMAND (for adjustment)

	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
Α	ABL	ABL	ABL level adjustment	0	-	-	0	0
В	BRT	BRIGHT	Brightness adjustment	0	0	-	О	0
	BHI	B HIGH	B HIGH adjustment	0	0	-	О	0
	BLW	B LOW	B LOW adjustment	0	0	-	О	0
	BSL	B SIDE MASK LEVEL	B SIDE MASK LEVEL adjustment	0	0	-	О	0
	BHA	AD B HIGH	AD B HIGH adjustment	0	-	-	О	0
	BLA	AD B LOW	AD B LOW adjustment	0	_	_	О	0
С	CNT	CONTRAST	Contrast adjustment	0	0	_	О	0
	COL	COLOR	Color adjustment	0	0	_	О	0
	CDR	CDR OFFSET	CDR OFFSET adjustment	0	_	_	0	0
	CDB	CDB OFFSET	CDB OFFSET adjustment	0	_	_	0	0
	CTI	CD TINT	Chroma decode TINT adjustment	0	_	_	0	0
	CPH	CLOCK PHASE	PLL phase adjustment	0	0	_	0	0
	CFR	CLOCK FREQUENCY	PLL frequency adjustment	0	0	_	0	0
D	DW0	DOWN 10	Turn the adjustment value to 10 DOWN	0	0	0	-	_
_	DWn	DOWN n	Turn the adjustment value to n DOWN (n = 1, 2,• • • 8, 9)	0	0	0		
	DWF	DOWN FULL	Turn the adjustment value to minimum	0				-
_			,		0	О	-	-
G	GHI	G HIGH	G HIGH adjustment	0	0	-	0	0
	GLW	G LOW	G LOW adjustment	0	0	_	0	0
	GSL	G SIDE MASK LEVEL	G SIDE MASK LEVEL adjustment	0	0	-	0	0
	GHA	AD G HIGH	AD G HIGH adjustment	0	_	-	0	0
	GLA	AD G LOW	AD G LOW adjustment	0	-	-	О	0
L	LRY	R-Y LEVEL	R-Y level adjustment	0	-	-	О	0
	LBY	B-Y LEVEL	B-Y level adjustment	0	-	-	О	0
M	MCT	MAT CONTRAST	MAT CONTRAST adjustment	0	-	-	О	0
	MBR	MAT BRIGHT	MAT BRIGHT adjustment	О	_	-	O	О
	MCL	MAT COLOR	MAT COLOR adjustment	О	_	-	O	О
	MTI	MAT TINT	MAT TINT adjustment	0	_	-	О	0
	MCA	AD MAIN CONTRAST	AD MAIN CONTRAST adjustment	0	-	-	О	0
Р	PBH	PANEL BLUE HIGH	BLUE HIGH-LIGHT adjustment	0	-	-	О	0
	PBL	PANEL BLUE LOW	BLUE LOW-LIGHT adjustment	0	-	_	О	0
	PGH	PANEL GREEN HIGH	GREEN HIGH-LIGHT adjsutment	0	_	_	О	0
	PGL	PANEL GREEN LOW	GREEN LOW-LIGHT adjustment	0	_	_	О	0
	PRH	PANEL RED HIGH	RED HIGH-LIGHT adjustment	0	_	_	0	0
	PRL	PANEL RED LOW	RED LOW-LIGHT adjustment	0	_	_	0	0
R	RHI	R HIGH	R HIGH adjustment	0	0	_	0	0
••	RLW	R LOW	R LOW adjustment	0	0	_	0	0
	RSL	R SIDE MASK LEVEL	R SIDE MASK LEVEL adjustment	0	0		0	0
	RHA	AD R HIGH		0		_	0	0
			AD R HIGH adjustment		_	_		
_	RLA	AD R LOW	AD R LOW adjustment	0	-	-	0	0
S	SV1	SUB VOLUME INPUT1	Adjust the sub-volume of INPUT1	0	0	-	0	0
	SV2	SUB VOLUME INPUT2	Adjust the sub-volume of INPUT2	0	0	-	0	0
	SV3	SUB VOLUME INPUT3	Adjust the sub-volume of INPUT3	0	0	-	0	0
	SV4	SUB VOLUME INPUT4	Adjust the sub-volume of INPUT4	0	О	_	О	0
	SV5	SUB VOLUME INPUT5	Adjust the sub-volume of INPUT5	О	О	-	О	0
	SHP	H.SHARP	H.SHARP/H.ENHANCE adjustment	0	О	-	О	0
	SHV	V.SHARP	V.SHARP/V.ENHANCE adjustment	О	О	-	O	О
Т	TNT	TINT	TINT adjustment	О	О	-	O	О
U	UP0	UP10	Turn the adjustment value to 10 UP	О	О	0	-	-
	UPn	UPn	Turn the adjustment value to n UP (n = 1,2 • • 8,9)	0	0	О	_	-
	UPF	UP FULL	Turn the adjustment value to maximum	0	0	О	-	-
٧	VOF	VOFFSET ADJUST	Vofs adjustment	0	_	_	О	0
	VOL	VOLUME	Audio volume adjustment	0	О	0	О	0
	VSU	VSUS ADJUST	Vsus adjustment	0	_	_	0	0
	VPS	VERTICAL POSITION	Adjust the vertical position	0	0	_	0	0
	VSI	VERTICAL SIZE	Adjust the vertical size	0	0	_	0	0
X	XSB	XSUS B	X-SUS-B pulse adjustment	0			0	0
^	XSG	XSUS G	X-SUS-G pulse adjustment	0	-	_	0	0
		YSUS B					0	
v			Y-SUS-B pulse adjustment	О	_	_	U	О
Υ	YSB							
Υ	YSG YDL	YSUS G Y-DELAY	Y-SUS-G pulse adjustment Y-DELAY adjustment	0	-	-	0	0

6.4.2 RS-232C COMMAND (for setting)

	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
Α	AJN	ADJUST NO	Complete the RS-232C integrator mode	_	0	-	-	-
	AJY	ADJUST YES	Start the RS-232C integrator mode	-	-	О	-	-
	AMN	AUDIO MUTE NO	Turn the audio mute to OFF	О	О	О	-	-
	AMY	AUDIO MUTE YES	Turn the audio mute to ON	0	О	О	-	-
	AB0	ABL MODE0	Set the ABL setting to MODE0 (REFERENCE)	0	-	-	-	-
	AB1	ABL MODE1	Set the ABL setting to MODE1 (PC)	0	_	-	-	-
	AB2	ABL MODE2	Set the ABL setting to MODE2 (VIDEO60Hz)	0	-	-	_	-
	AB3	ABL MODE3	Set the ABL setting to MODE3 (VIDEO50Hz)	0	_	-	_	_
В	BBY	VIDEO RGB YES	Set the signal format to VIDEO RGB	0	0	-	_	_
	BR1	BAUD RATE1	Set the RS-232C baud rate to 1200BPS	0	0	-	_	_
	BR2	BAUD RATE2	Set the RS-232C baud rate to 2400BPS	0	0	_	_	_
	BR3	BAUD RATE3	Set the RS-232C baud rate to 4800BPS	0	0	_	_	_
	BR4	BAUD RATE4	Set the RS-232C baud rate to 9600BPS	0	0	_		_
	BR5	BAUD RATE5	Set the RS-232C baud rate to 19200BPS	0	0	_		_
	BR6				-	-		_
_		BAUD RATE6	Set the RS-232C baud rate to 38400BPS	0	0	-		-
С	CM1	COLOR MODE 1	Set to COLOR MODE 1	0	0	О		-
	CM2	COLOR MODE 2	Set to COLOR MODE 2	0	0	0	-	-
	CP1	VIDEO COMPONENT1 YES	Set the signal format to VIDEO COMPONENT1	О	О	-	-	_
	CP2	VIDEO COMPONENT2 YES	Set the signal format to VIDEO COMPONENT2	О	О	-	-	_
	CDE	COLOR DETECT EURO	Set the color detect to EURO	О	О	-	-	_
	CDM	COLOR DETECT ALL	Set the color detect to ALL	0	0	-	-	_
	CDA	COLOR DETECT SA	Set the color detect to SA	О	0	-	_	_
	CT1	COLOR TEMP.1	Set the color temperature to -3000K equivalency	0	0	_	_	_
	CT2	COLOR TEMP.2	Set the color temperature to -2000K equivalency	0	0	_	_	_
	CT3	COLOR TEMP.3	Set the color temperature to ±0K equivalency	0	0		_	_
	CT4	COLOR TEMP.4		0	0	_		_
			Set the color temperature to +1000K equivalency		-	_		_
	CT5	COLOR TEMP.5	Set the color temperature to +2000K equivalency	0	0	-		-
	CL1	CLAMP MODE1	Set the clamp position to AUTO	0	0	-		-
	CL2	CLAMP MODE2	Set the clamp position to fix	О	О	-	-	_
D	DIN	OSD DISPLAY NO	Prohibit OSD display	О	О	0	-	_
	DIY	OSD DISPLAY YES	Permit OSD display	О	О	О	-	_
	DOF	DISPLAY OFF	Turn the OSD display to OFF	О	О	О	-	_
	DRN	DRIVE ON	Turn the drive to ON	It is valid in th	ne RS-232C fac	tory and	_	_
	DRF	DRIVE OFF	Turn the drive to OFF	STB		ĺ	_	_
	DSP	INPUT SIGNAL DISPLAY	Display current input signal information	0	0	_	_	_
	DS2	DISPLAY2	Display current various information	0	0	_	_	_
E	EWY	EEPROM WRITE YES	Start the Plug & Play EEPROM writing mode	0	_	_		_
-	EWN	EEPROM WRITE NO	Complete the Plug & Play EEPROM writing mode	0	_	_		_
F					_	_	-	_
Г	FAN	FACTORY ADJUST NO	Complete the factory adjustment mode	0	-	-		-
	FAY	FACTORY ADJUST YES	Start the factory adjustment mode	-	_	О	_	-
	FST	FINAL SET UP	Turn various setting into the Shipping state	0	_	-	-	_
	FRP	FRESH POSITION	Initialize SCREEN value of integrator	О	О	-	-	_
	FCA	FAN CONTROL AUTO	Turn the fan roll control to AUTO	О	0	-	-	-
	FCM	FAN CONTROL MAX	Turn the fan roll control to MAX	0	0	-	-	-
	FMY	FULL MASK YES	Set to FULL MASK (white)	-	0	-	_	-
	FMR	FULL MASK RED	Set to FULL MASK (red)	-	0	-	-	-
	FMG	FULL MASK GREN	Set to FULL MASK (green)	_	0	_	_	-
	FMB	FULL MASK BLUE	Set to FULL MASK (blue)	_	0	_	_	_
	FMN	FULL MASK NO	Release the FULL MASK	_	0	_	_	_
	FXO	FIX OUTPUT	Set the audio output to fix	0	0	-	-	_
						-		_
	F50	FREE RUN 50Hz	Set the free-running to 50Hz in the MASK setting	0	-	-		_
	F60	FREE RUN 60Hz	Set the free-running to 60Hz in the MASK setting	0	-	-	_	-
	F70	FREE RUN 70Hz	Set the free-running to 70Hz in the MASK setting	0	-	-	-	-
G	GAJ	GET ADJUST	Get a various adjustment value of the display from EEPROM	0	-	-	_	-
	GPW	GET PANEL W/B	Get the panel W/B information from EEPROM	О	-	-	-	-
	GS1	GET STATUS 1	Get the version information of microcomputer from EEPROM	0	-	-	_	-
	GS2	GET STATUS 2	Get the PD information and temperature information from EEPROM	0	-	-	-	-
	GPS	GET POSITION DATA	TxD outputs the positioning data	0	0	0	-	-
		GET STATUS OPTION	TxD outputs data of various established state (OPTION)	0	0	0	-	-
	GSO	GET STATUS OF HON						i .
	GSO GSS	GET STATUS OF HON	TxD outputs data of various established state (SET UP)	0	0	0	_	_
				0	0 -	0	-	-

	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
G	GWB	GET WHITE BALANCE	TxD outputs data of picture quality setting of RGB1	0	0	0	-	-
	GPD	GET POWER DOWN	TxD outputs POWER DOWN information	О	-	-	-	_
Н	HCN	HIGH CONTRAST NO	Turn the high contrast setting to OFF	0	0	_	-	_
	HCY	HIGH CONTRAST YES	Turn the high contrast setting to ON	О	0	_	_	_
	HMS	HOUR METER SET	Set the hour meter to optional time	О	-	-	0	_
	HMD	HOUR METER DISP.	Display the hour meter	0	0	-	-	_
	H80	HDTV MODE 1080 i	Set the HDTV mode to 1080 i	О	0	-	-	_
	H35	HDTV MODE 1035 i	Set the HDTV mode to 1035 i	О	0	_	_	_
Т	IN1	INPUT1	Selects INPUT1	0	0	0	_	_
	IN2	INPUT2	Selects INPUT2	0	0	0	_	_
	IN3	INPUT3	Selects INPUT3	0	0	0	_	_
	IN4	INPUT4	Selects INPUT4	0	0	0	_	<u> </u>
		INPUT5	Selects INPUT5	0	0	0	_	_
		INTEGRATOR MODE NO	Set the integrator mode to LOCK	0	_	_	_	_
		INTEGRATOR MODE YES	Set the integrator mode to UNLOCK	0	_		_	
	IDC	ID CLEAR	Clear the ID	0				
					0	-	-	-
		ID SET	Set the ID	0	0	-	0	-
K	KLN	KEY LOCK NO	Permit main unit key / remote control unit operation	0	0	_	-	-
		KEY LOCK YES	Prohibit main unit key / remote control unit operation	0	0	-	-	-
M		MASK 00	Mask mode OFF	0	-	-	-	-
		MASK 01	Pattern 1 (ramp)	0	-	-	-	-
	M02	MASK 02	Pattern 2 (color bar)	О	_	_	-	_
	M03	MASK 03	Pattern 3 (slanting line)	О	_	_	-	_
	M04	MASK 04	Pattern 4 (for W/B measurement)	О	_	-	-	_
	M05	MASK 05	Pattern 5 (for W/B adjustment)	О	-	-	-	_
	M06	MASK 06	Pattern 6 (for W/B peak measurement)	0	_	-	-	_
	M07	MASK 07	Pattern 7 (for peak measurement)	О	-	_	-	_
	M08	MASK 08	Pattern 8 (reservation)	0	_	_	_	_
	M09	MASK 09	Pattern 9 (for SCAN IC protect test)	0	_	_	_	_
		MASK 10	Pattern 10 (for SCAN IC protect test)	0	_	 	_	_
		MASK 11	Pattern 11 (reservation)	0	_	_	_	_
		MASK 12	Pattern 12 (reservation)	0	_	_	_	_
		MASK 13	Pattern 13 (reservation)	0	_	_	_	_
		MASK 14	Pattern 14 (reservation)	0	_		_	
		MASK 51		0	_	_	_	_
			Full mask (white)					
		MASK 52	Full mask (cyan 274)	0	-	_	-	
		MASK 53	Full mask (mazenta 274)	0	_		_	
		MASK 54	Full mask (fresh color)	0	_	-	-	_
		MASK 55	Full mask (cyan 1023)	0	_	-	-	_
	M56	MASK 56	Full mask (light purple 5)	О	-	-	-	_
	M57	MASK 57	Full mask (sky blue)	О	_	-	-	
	M58	MASK 58	Full mask (red)	О	_	_	-	_
	M59	MASK 59	Full mask (green)	0	-	_	-	-
	M60	MASK 60	Full mask (blue)	0	_	_	-	_
	M61	MASK 61	Full mask (black)	0	-	-	-	-
	M62	MASK 62	Full mask (reservation)	0	_	_	_	_
	M63	MASK 63	Full mask (reservation)	0	_	<u> </u>	_	_
	M64	MASK 64	Full mask (reservation)	0	-	_	-	_
		MASK 65	Full mask (reservation)	0	_	_	_	_
		MASK 66	Full mask (reservation)	0	_	_	_	_
		2X2MODE LEFT UPPER	Four enlarged setting: Upper left	0	0	_	_	_
		2X2MODE LEFT OFFER 2X2MODE LEFT LOWER	Four enlarged setting: Opper left Four enlarged setting: Lower left	0	0	-		
			<u> </u>			-	-	-
		2X2MODE RIGHT LOWER	Four enlarged setting: Upper right	0	0	-	-	-
		2X2MODE RIGHT LOWER	Four enlarged setting: Lower right	0	0	-	-	-
		2X2MODE YES	Turn the four sides multi to ON	0	0	0	-	-
		2X2MODE NO	Turn the four sides multi to OFF	0	0	0	-	-
		MIRROR MODE NO	Turn the mirror mode to OFF (normal display)	0	0	0	-	-
	MMX	MIRROR MODE X	Right and left reversing display	0	0	0	-	-
	MMY	MIRROR MODE Y	Top and bottom reversing display	0	0	0	-	-
	MMZ	MIRROR MODE XY	Top and bottom / right and left reversing display	0	0	0	-	_
	MTN	VIDEO MUTE NO	Turn the video mute of IC30 to OFF	0	0	О	_	_
			1					

	Command	Name	Function	RS-232C Factory	RS-232C Integrator	Normal Validity	Direct Validity	UP/DOWN Validity
M	MCY	MASK CONTROL YES	Permit automatic mask display position setting	О	О	-	ı	_
	MCN	MASK CONTROL NO	Release automatic mask display position setting	0	О	-	-	-
N	NMY	NEGATIVE MODE YES	Turn the inverse mode (negative positive inverting) to ON	0	0	-	-	_
	NMN	NEGATIVE MODE NO	Turn the inverse mode (negative positive inverting) to OFF	0	0	-	-	_
	NTS	COLOR SYSTEM NTSC	Turn the COLOR SYSTEM setting to NTSC	0	0	-	-	-
	NT4	COLOR SYSTEM 4.43NTSC	Turn the COLOR SYSTEM setting to 4.43NTSC	0	0	-	_	-
	NRN	DIGITAL NR OFF	Turn the DIGITAL NR setting to OFF	0	0	-	_	-
	NRL	DIGITAL NR LOW	Turn the DIGITAL NR setting to LOW	0	0	_	-	_
	NRM	DIGITAL NR MIDDLE	Turn the DIGITAL NR setting to MIDDLE	0	0	-	_	_
	NRH	DIGITAL NR HIGH	Turn the DIGITAL NR setting to HIGH	0	0	-	_	_
0	OFY	OFFSET YES	Turn the OFFSET adjustment mode to ON	0	_	_	_	_
	OCY	FIELD OFFSET CHANGE YES	Turn the field AB offset to ON	0	_	_	_	_
	OCN	FIELD OFFSET CHANGE NO	Turn the field AB offset to OFF	0	_	_		_
	OMY	ORBITER MODE YES	Turn the orbiter mode to ON	0	0	_	_	_
	OMN	ORBITER MODE NO	Turn the orbiter mode to OFF	0	0	_		_
P	PAF	ACL SW OFF	Turn the ACL SW to OFF	0	-	_		_
г	PAL	COLOR SYSTEM PAL	Turn the COLOR SYSTEM setting to PAL	0	0	_		_
	PAN	ACL SW ON	Turn the ACL SW to ON			_		_
				0	-	_	_	_
	PCY	PC RGB YES	Turn the INPUT setting to PC: RGB (VGA or XGA)	0	0	_	-	_
	PWY	PC WIDE YES	Turn the INPUT setting to PC: RGB (WVGA or WXGA)	0	0	-	-	-
	PLN	BRIGHT ENHANCE OFF	Turn the center brightness correction function to OFF	0	0	-	-	_
	PLY	BRIGHT ENHANCE ON	Turn the center brightness correction function to ON	0	0	-	-	_
	PMS	PULSE METER SET	Set the pulse meter	0	-	-	О	-
	PMD	PULSE METER DISP	Display the pulse meter	0	-	-	-	_
	PMY	COLOR SYSTEM PAL-M	Turn the COLOR SYSTEM setting to PAL-M	0	О	-	-	_
	PNY	COLOR SYSTEM PAL-N	Turn the COLOR SYSTEM setting to PAL-N	О	О	-	-	_
	PON	POWER ON	Power ON	-	_	О	-	_
	POF	POWER OFF	Power OFF	0	О	О	-	_
	PT0	PANEL COLOR TEMP0	Panel color temperature 0 (REFERENCE value)	0	-	-	-	-
	PT1	PANEL COLOR TEMP1	Panel color temperature 1	0	_	-	-	_
	PT2	PANEL COLOR TEMP2	Panel color temperature 2	0	_	-	-	_
	PSN	AUTO POWER OFF OFF POWER MANAGEMENT OFF	Turn the AUTO POWER OFF / POWER MANAGEMENT setting to OFF	0	О	-	ı	-
	PS1	AUTO POWER OFF ON	Turn the AUTO POWER OFF setting to ON	О	О	-	-	_
	PS2	POWER MANAGEMENT ON	Turn the POWER MANAGEMENT setting to ON	0	О	-	-	_
	PUN	PURECINEMA OFF	Turn the PURECINEMA to OFF	0	0	-	-	-
	PUS	PURECINEMA STANDARD	Turn the PURECINEMA to STANDARD	0	0	-	-	_
	PUH	PURECINEMA HQ	Turn the PURECINEMA to HQ (HIGH QUALITY)	0	0	-	-	-
	PWN	POWER CONTROL STANDARD	Turn the power control to OFF (STANDARD mode)	0	О	-	-	-
	PWL	CONTROL MODE1	Turn the power control to MODE1 (Power-saving mode)	0	0	_	_	-
	PWS	POWER CONTROL MODE2	Turn the power control to MODE2 (Longevity life mode)	0	0	-	-	-
	PDF	PICTURE DEFAULT	Execute PICTURE DEFAULT	0	-	-	-	-
R	RFY	REFERENCE YES	Start the reference adjustment mode	0	-	-	-	-
	SCM	COLOR SYSTEM SECAM	Turn the COLOR SYSTEM setting to SECAM	0	0	-	-	-
	STD	STANDARD W/B	Return the PIC and W/B of integrator to factory default value	_	0	_	_	-
	SM0	SCREEN MODE 0	Turn the screen size to DOT BY DOT	0	0	О	_	_
	SM1	SCREEN MODE 1	Turn the screen size to 4:3	0	0	0	_	_
s	SM2	SCREEN MODE 2	Turn the screen size to FULL	0	0	0	_	_
-	SM3	SCREEN MODE 3	Turn the screen size to ZOOM	0	0	0	_	_
	SM5	SCREEN MODE 5	Turn the screen size to WIDE	0	0	0		_
	SLY	STILL YES	Turn the STILL setting to ON	0	0	0		_
	SLN		-				_	_
_		STILL NO	Turn the STILL setting to OFF	0	0	О		-
T	TVA	COLOR SYSTEM AUTO	Turn the COLOR SYSTEM setting to AUTO	0	О	-	-	-
٧	VFY	VIDEO FULL DISPLAY YES	Start 100% display	-	-	0	_	-
	VFN	VIDEO FULL DISPLAY NO	Complete 100% display	_	-	О	-	-
	VRO	VARIABLE OUTPUT	Turn the audio output to variable	0	0	-	-	-
Υ	YCM	3S Y/C MOTION	Turn the 3D Y/C setting to MOTION	0	0	-	-	-
	YCS	3D Y/C STILL	Turn the 3D Y/C setting to STILL	О	О	-	_	_

6.4.3 GET Command

Command Description

Command	Function	
GAJ	Output data of an electronic VR adjustment value and a drive system adjustment value	
GPW	Output data to be related to white balance adjustment of the panel	
GS1	Output data such as version information, hour meter and pulse meter	
GS2	Output data of power down, temperature and dew drop information	
GAS	Output data to be related to picture quality setting of SLOT	
GAR	Output data to be related to picture quality (RGB1 of the factory menu)	
GPD	Output POWER DOWN information (past eight times)	
GPS	Output a SCREEN parameter	
GWB	Output a parameter of PICTURE and WHITE BALANCE	
GSS	Output various setting of the SET UP item of menu mode / integrator mode	
GSO	GSO Output various setting of the OPTION item of menu mode / integrator mode	

GAJ: Output data of an electron VR adjustment value and a drive system adjustment value

- Output it according to transmission order and size of the table below.
- Command is invalid except RS-232C factory adjustment mode.

Order	Data Contents		Size	Remarks
1	Setting mode of electric power u	pper limit value	3 byte	AB* (*: 0 to 3)
2	Electric power upper limit value	(Reference data)	3 byte	
3	(ABL)	(Offset data)	3 byte	(Note 1)
4	Vsus adjustment value	(Reference data)	3 byte	
5	Vofs adjustment value	(Reference data)	3 byte	
6	V-SUS-B adjustment value	(Reference data)	3 byte	
7	V-SUS-G adjustment value	(Reference data)	3 byte	
8	Y-SUS-B adjustment value	(Reference data)	3 byte	
9	Y-SUS-G adjustment value	(Reference data)	3 byte	

⁽Note 1): When performed in reference mode selection, offset data outputs the same value as the reference data.

GPW (Get Panel White balance): Output data to be related to white balance adjustment of panel • Output it according to transmission order and size of the table below.

- Command is invalid except RS-232C factory adjustment mode.

Order	Data Contents		Size	Remarks
1	Panel color temperature mode		3 byte	PT* (*: 0 to 3)
2	Cain of W/P adjustment value	(Reference data)	3 byte	
3	Gain of W/B adjustment value Red	(Offset data)	3 byte	(Note 1)
4	Gain of W/B adjustment value	(Reference data)	3 byte	
5	Green	(Offset data)	3 byte	(Note 1)
6	Gain of W/B adjustment value	(Reference data)	3 byte	
7	Blue	(Offset data)	3 byte	(Note 1)
8	Offset of W/B adjustment value	(Reference data)	3 byte	
9	Red	(Offset data)	3 byte	(Note 1)
10	Offset of W/B adjustment value	(Reference data)	3 byte	
11	Green	(Offset data)	3 byte	(Note 1)
12	Offset of W/B adjustment value	(Reference data)	3 byte	
13	Blue	(Offset data)	3 byte	(Note 1)

(Note 1): When performed in reference mode selection, offset data outputs the same value as the reference data.

GS1: Output data such as version information, hour meter and pulse meter • Output it according to transmission order and size of the table below.

- · Command is invalid except RS-232C factory adjustment mode.

Order	Data Contents	Size	Remarks
1	Display information	3 byte	See below
2	Module microcomputer model number	4 byte	5691 or F691
3	Module microcomputer version	3 byte	
4	Panel microcomputer version	3 byte	
5	Panel /FLASH ROM version	3 byte	
6	Hour meter (hour)	5 byte	Unit: H (time)
7	Pulse meter	7 byte	Unit: 0.01G (10,000,000)
8	Main microcomputer model number	4 byte	5692 or F692
9	Main microcomputer version	3 byte	
10	Wide microcomputer version	3 byte	
11	Wide /FLASH ROM version	3 byte	

■ Display Information

Data	Model	
MX5	PDP-503MX (initial value)	
MX4	PDP-433MX	
MD5	Module 50 inches	
MD4	Module 43 inches	
HD5	PDP-503HD	
HD4	4 PDP-433HD	

- GS2: Output data of power down, temperature and dew drop information
 Output it according to transmission order and size of the table below.
 In the PD (Power Down) of RS-232C factory adjustment mode, NG except dew drop and AUDIO occurs and a command that except for 30 seconds to SD (shut down) is invalid.

Note: When NG occurred in the PD state, do not perform the "FAY" for 30 seconds to SD (Shut Down), and information acquisition is possible by perform the "GS2" directly. However it is necessary to set ID beforehand.

Order	Data Contents	Size	Remarks
1	AC information	1 byte	Always 0 (not used)
2	Service parts distinction	1 byte	DIGITAL ASSY adjustment completion DIGITAL ASSY does not adjust (Service Assy)
3	Hour meter (hour, minute)	7 byte	****H**M
4	Power down information	2 byte	1st/2nd (Note)
5	Temperature information	3 byte	8 bit
6	Dew drop information	1 byte	1: Dew drop NG
7	Panel microcomputer communication	1 byte	1: Communication NG
8	DIGITAL EEPROM communication	1 byte	1: Communication NG
9	DIGITAL EXPANDER communication	1 byte	1: Communication NG
10	Temperature information (TEMP2)	3 byte	8 bit
11	Temperature information (TEMP3)	3 byte	8 bit
12	Module microcomputer communication	1 byte	1: Communication NG
13	Wide microcomputer communication	1 byte	1: Communication NG
14	MAIN IIC	1 byte	1: Communication NG
15	MAIN EEPROM IIC	1 byte	1: Communication NG
16	AUDIO NG	1 byte	1: AUDIO NG
17	FAN NG	1 byte	1: FAN NG

(Note) Refer to the following table about contents of PD information

Data	Power Down Point
0	Nothing
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	ADDRESS junction
7	ADDRESS resonance
8	DC/DC CONVERTER (DIGITAL)

GAS (Get Adjust Slot): Output data to be related to picture quality setting • Transmit data according to transmission order and size of the table below. • Data are SLOT sections of the factory menu. • When current input function is except for VIDEO input of SLOT system, command is invalid. • When SLOT is not connected or external SLOT is connected, command is invalid.

- Command is invalid except RS-232C factory adjustment mode.

Order	Data Cor	ntents	Size	Remarks
1	-Y-DELAY	(Reference data)	3 byte	
2	11-DELAT	(Offset data)	3 byte	(Note 1)
3	Y-OUT LEVEL	(Reference data)	3 byte	
4	T-OOT LEVEL	(Offset data)	3 byte	(Note 1)
5	-CD TINT	(Reference data)	3 byte	
6		(Offset data)	3 byte	(Note 1)
7	-CDR OFFSET	(Reference data)	3 byte	
8	ODN OFF SET	(Offset data)	3 byte	(Note 1)
9	-CDB OFFSET	(Reference data)	3 byte	
10	ODD OIT SET	(Offset data)	3 byte	(Note 1)
11	-R-Y LEVEL	(Reference data)	3 byte	
12	70-1 LLVLL	(Offset data)	3 byte	(Note 1)
13	-B-Y LEVEL	(Reference data)	3 byte	
14		(Offset data)	3 byte	(Note 1)

(Note 1): When performed in reference mode selection, offset data outputs the same value as the reference data.

GAR: Output data to be related to picture quality (RGB1 of the factory menu) • Transmit data according to transmission order and size of the table below.

- Command is invalid except RS-232C factory adjustment mode.

Order	Data Co	ontents	Size	Remarks
1	AD MAIN CONT	(Reference data)	3 byte	(Note 1)
2	AD WAIN CONT	(Offset data)	3 byte	(Note 1) (Note 2)
3	-AD R HIGH	(Reference data)	3 byte	(Note 1)
4	ADRINGH	(Offset data)	3 byte	(Note 1) (Note 2)
5	-AD G HIGH	(Reference data)	3 byte	(Note 1)
6	AD G HIGH	(Offset data)	3 byte	(Note 1) (Note 2)
7	-AD B HIGH	(Reference data)	3 byte	(Note 1)
8	ADBINGN	(Offset data)	3 byte	(Note 1) (Note 2)
9	-AD R LOW	(Reference data)	3 byte	(Note 1)
10	AD R LOW	(Offset data)	3 byte	(Note 1) (Note 2)
11	-AD G LOW	(Reference data)	3 byte	(Note 1)
12	AD G LOW	(Offset data)	3 byte	(Note 1) (Note 2)
13	AD B LOW	(Reference data)	3 byte	(Note 1)
14	AD B LOW	(Offset data)	3 byte	(Note 1) (Note 2)
15	-MAT CONT	(Reference data)	3 byte	(Note 1)
16	INIAT CONT	(Offset data)	3 byte	(Note 1) (Note 2)
17	-MAT BRIGHT	(Reference data)	3 byte	(Note 1)
18	TWAT BRIGHT	(Offset data)	3 byte	(Note 1) (Note 2)
19	-MAT COLOR	(Reference data)	3 byte	(Note 1)
20	TIVIAT COLOR	(Offset data)	3 byte	(Note 1) (Note 2)
21	-MAT TINT	(Reference data)	3 byte	(Note 1)
22	TIVIA I IIIN I	(Offset data)	3 byte	(Note 1) (Note 2)

(Note 1) Setting data to be unrelated to current input function / input signal / setting output dummy data.

(Note 2) When performed in reference mode selection, offset data outputs the same value as the reference data.

GPS: Output data to be related to SCREEN adjustment data

- Transmit data according to transmission order and size of the table below.
- All the data are data of an integrator area.
- Except normal operation mode / each mode of RS-232C integrator adjustment, command is invalid.

Order	Data Contents	Size	Remarks
1	H.POSITION	3 byte	
2	V.POSITION	3 byte	
3	CLOCK	3 byte	(Note 1)
4	PHASE	3 byte	(Note 1)
5	V.SIZE	3 byte	

(Note 1) When current input signal mode is the VIDEO system and INPUT5 (DVI), adjustment data output dummy data (*).

GPD (Get Power Down), PD (Power Down): Outputs information (contents of PD INFORMATION of service factory MENU)

- Output the acquired data according to the transmission order and size of the table below.
- Except RS-232C factory adjustment mode and PD state, command is invalid.

(Note) Do not perform the "FAY" in the PD state, and information acquisition is possible by perform the "GPD" directly. However it is necessary to set ID beforehand.

Order	Data Contents	Size	Remarks
1	The latest 1stPD information	1 byte	(Note 1)
2	The latest 2ndPD information	1 byte	(Note 1)
3	Hour meter information of the latest PD	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
4	1stPD information before twice	1 byte	(Note 1)
5	2ndPD information before twice	1 byte	(Note 1)
6	Hour meter information of PD before twice	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
7	1stPD information before three times	1 byte	(Note 1)
8	2ndPD information before three times	1 byte	(Note 1)
9	Hour meter information of PD before three times	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
10	1stPD information before four times	1 byte	(Note 1)
11	2ndPD information before four times	1 byte	(Note 1)
12	Hour meter information of PD before four times	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
13	1stPD information before five times	1 byte	(Note 1)
14	2ndPD information before five times	1 byte	(Note 1)
15	Hour meter information of PD before five times	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
16	1stPD information before six times	1 byte	(Note 1)
17	2ndPD information before six times	1 byte	(Note 1)
18	Hour meter information of PD before six times	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
19	1stPD information before seven times	1 byte	(Note 1)
20	2ndPD information before seven times	1 byte	(Note 1)
21	Hour meter information of PD before seven times	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE
22	1stPD information before eight times	1 byte	(Note 1)
23	2ndPD information before eight times	1 byte	(Note 1)
24	Hour meter information of PD before eight times	7 byte	Previous 5byte: HOUR Back 2byte: MINUTE

(Note 1) Refer to the following table about contents of PD information

Data	Power Down Point
0	Nothing
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	ADDRESS junction
7	ADDRESS resonance
8	DC/DC CONVERTER (DIGITAL)

GWB (Get White Balance): Output data to be related to picture quality / white balance • Transmit data according to transmission order and size of the table below. • Except each normal operation mode / RS-232C integrator adjustment / RS-232C factory adjustment mode, command is invalid.

- In the normal operation / RS-232C integrator adjustment mode, output two data of the current signal mode in the current input function and integrator area of current color mode.
- In the RS-232C factory adjustment mode, output data of factory RGB2.

Order	Data Contents	Size	Remarks
1	CONTRAST	3 byte	
2	CONTRACT	3 byte	(Note 2)
3	BRIGHT	3 byte	
4	DRIGITI	3 byte	(Note 2)
5	COLOR	3 byte	(Note 1)
6	OOLOIT	3 byte	(Note 2)
7	TINT	3 byte	(Note 1)
8	THAT	3 byte	(Note 2)
9	R HIGH	3 byte	
10	n riidiri	3 byte	(Note 2)
11	G HIGH	3 byte	
12	dilidii	3 byte	(Note 2)
13	B HIGH	3 byte	
14	Briidir	3 byte	(Note 2)
15	R LOW	3 byte	
16	Th LOW	3 byte	(Note 2)
17	G LOW	3 byte	
18	G LOW	3 byte	(Note 2)
19	-B LOW	3 byte	
20		3 byte	(Note 2)
21	H.ENHANCE (H.SHARP)	3 byte	
22	V.ENHANCE (V.SHARP)	3 byte	

(Note 1) Setting data to be unrelated to current input function / input signal / setting output dummy data (*).

(Note 2) When performed in reference mode selection, offset data outputs the same value as the reference data.

GSS: Output data to be related to various established state (SET UP item of menu mode / integrator menu)

- Transmit data according to transmission order and size of the table below.
 Except each normal operation mode / RS-232C integrator adjustment / RS-232C factory adjustment mode, command is invalid.

Order	Data Contents	Size	Output	Remarks
1	COLOR TEMP	1 byte	1: COLOR TEMP1 2: COLOR TEMP2 3: COLOR TEMP3 4: COLOR TEMP4 5: COLOR TEMP5	(Note 1)
2	DIGITAL NR	1 byte	0: OFF 1: LOW 2: MIDDLE 3: HIGH	(Note 1)
3	HIGH CONTRAST	1 byte	0: OFF, 1: ON	
4	PURECINEMA	3 byte	Same as the RS-232C command	(Note 1)
5	COLOR SYSTEM	3 byte	Same as the RS-232C command	(Note 1)
6	CLAMP	1 byte	1: AUTO 2: LOCKED	(Note 1)
7	3DY/C	1 byte	M: MOTION S: STILL	(Note 1)
8	SETTING/VIDEO SIGNAL	3 byte	Same as the RS-232C command	(Note 1)
9	2X2MODE	1 byte	0: OFF 1 to 4: MG1 to MG4 (Refer to item MAGNIFY)	
10	BRIGHT ENHANCE	1 byte	0: OFF, 1: ON	
11	HDTV MODE	3 byte	Same as the RS-232C command	(Note 1)
12	VIDEO INPUT	1 byte	1: COMPONENT1 2: COMPONENT2	(Note 1)
13	Input function	3 byte	IN*	
14	Screen size	1 byte	0: DOT BY DOT 1: 4:3 (TYPE) 2: FULL (TYPE) 3: ZOOM 5: WIDE 6: 100% display	
15	SUB VOLUME (INPUT1)	2 byte	0 to 60	
16	SUB VOLUME (INPUT2)	2 byte	0 to 60	
17	SUB VOLUME (INPUT3)	2 byte	0 to 60	(Note 1)
18	SUB VOLUME (INPUT4)	2 byte	0 to 60	(Note 1)
19	SUB VOLUME (INPUT5)	2 byte	0 to 60	(Note 1)

(Note 1) Setting data to be unrelated to current input function / input signal / setting output dummy data (*).

GSO: Output data to be related to various established state (OPTION item of menu mode / integrator menu)

- Transmit data according to transmission order and size of the table below.
 Except each normal operation mode / RS-232C integrator adjustment / RS-232C factory adjustment mode, command is invalid.

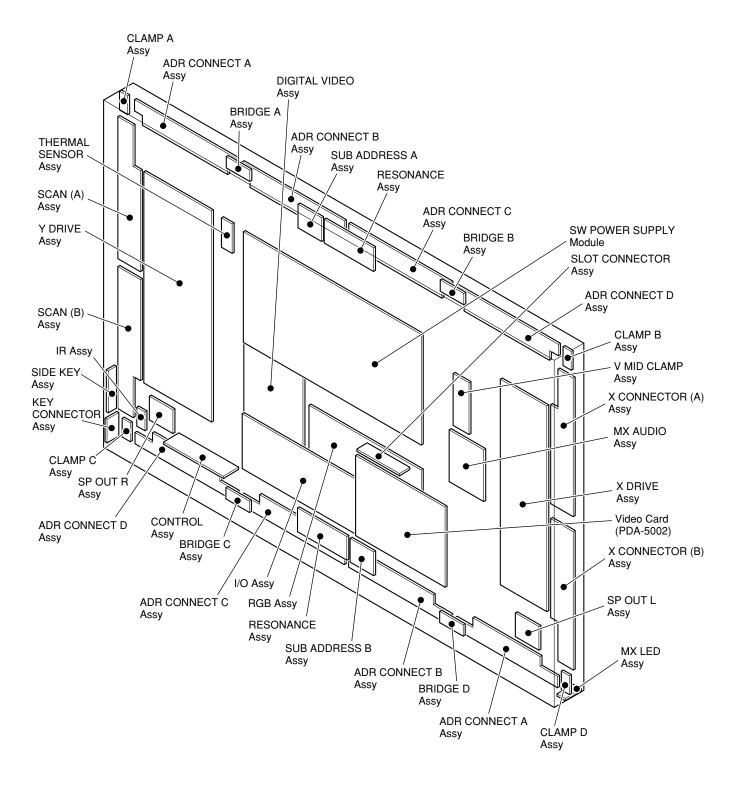
Order	Data Contents	Size	Output	Remarks
1	POWER CONTROL	3 byte	Same as the RS-232C command	
2	OSD display	1 byte	0: OSD display prohibition 1: OSD display permission	
3	FULL MASK	3 byte		Display a RS-232C command of set MASK currently
4	R SIDE MASK LEVEL	3 byte	Adjustment value	
5	G SIDE MASK LEVEL	3 byte	Adjustment value	
6	B SIDE MASK LEVEL	3 byte	Adjustment value	
7	MASK CONTROL	1 byte	0: OFF, 1: ON	
8	ORBITER MODE	1 byte	0: OFF, 1: ON	
9	INVERSE MODE	1 byte	0: OFF, 1: ON	
10	COLOR MODE	1 byte	1: COLOR MODE1 2: COLOR MODE2	
11	MIRROR MODE	1 byte	X: Right and left inverting Y: Top and bottom inverting Z: Top and bottom right and left inverting N: OFF	
12	FAN CONTROL	1 byte	A: AUTO M: MAX	
13	MONITOR NAME	12 byte		
14	SLOT INPUT	1 byte	0: VIDEO (RGB) 1: COMPONENT1 2: COMPONENT2	(Note 1)
15	TEMPERATURE	3 byte	A/D input value	(Note 2)
16	HOUR METER	5 byte		Unit : H
17	KEY LOCK	1 byte	0: Lock release 1: Lock	

(Note 1) Output dummy data (*) in inside SLOT connection.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 PCB LOCATION



7.1.2 SHUT DOWN/POWER DOWN DIAGNOSIS BY LED DISPLAY

When internal circuit abnormality and other operation abnormality occurred from this unit, self-diagnose display function by STANDBY/ON (LED) indicator is loaded.

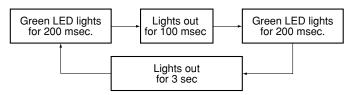
Each NG point by LED blinking and a PD (power down) point are as follows.

Shut Down

• Operations: When a microcomputer detected abnormality, turn the power supply to OFF.

· LED display: Green blinks

Examples: LED blinks in the DIGITAL-IIC communication NG



Number of blinks	Name
1	Panel Microcomputer NG
2	DIGITAL-IIC communication NG
3	Dewdrop abnormality
4	Temperature abnormality
5	FAN abnormality
6	Module microcomputer NG
7	Wide microcomputerNG
8	RGB-IIC communication NG
9	Audio NG

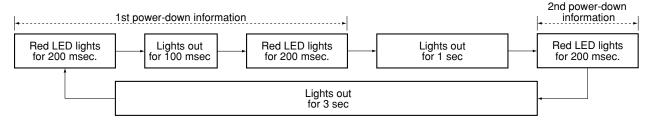
How to release the shut down state

When turn the power supply ON by remote control units, release from the shut down state, and turn the power supply ON. (It is not necessary to turn the AC power OFF.)

Power Down

- Operations: When this unit becomes the dangerous state, turn the power supply OFF with the protection circuit.
- · LED display: Red blinks
- * When protection circuit more than two places almost worked simultaneously, display LED in order to 1st 2nd.

Examples: LED blinks in the 1st power down = Y-DC/DC CONVERTER, 2nd power down = Y-DRIVE



Number of blinks	Name
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release the power down state

AC power OFF

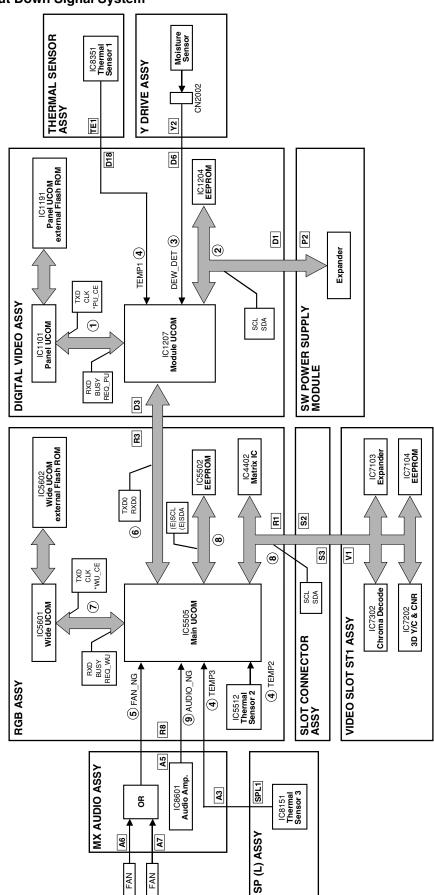
↓
Wait for PD LED in the power supply module disappearing (for around 30 seconds).

Afterwards, wait moreover for five seconds.

Return by AC power ON.

* After power down release, this unit rises up in the standby state.

Block Diagram of Shut Down Signal System



Note: (1 - 8) show LED flashing number of times when shut down occurred in this route.

• Shut down diagnosis

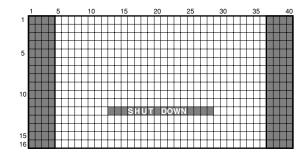
1) Panel microcomputer NG

When a module microcomputer failed in communication with a panel microcomputer, this NG occurs.

Shut down after OSD display for 30 seconds from the NG detection.

Abnormality to expect

Open / Short of communication line in the Assy



2 DIGITAL-IIC communication NG

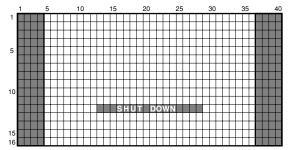
When a module microcomputer failed in communication with outside EEPROM or EXPANDER, this NG occurs.

Shut down after OSD display for 30 seconds from the NG detection.

* However, this communication NG may occur in the standby state.

Abnormality to expect

- · Open / Short of communication line in the Assy
- Breaking of wire between DIGITAL VIDEO Assy (D1) and SW POWER SUPPLY Module (P2).



3 Dew drop detection

When it becomes the dew drop state in this unit, this NG occurs. After the dew drop detection, shut down immediately.

Abnormality to expect for dew drop

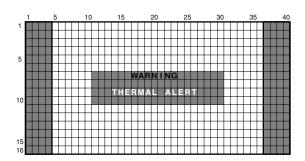
Disconnect a connector CN2002 between Dew drop sensor and Y DRIVE Assy.

4 Temperature abnormality

When temperature of this unit became abnormally high, this NG occurs. Shut down after OSD display from the NG detection for 30 seconds.

Abnormality to expect when it occurs in the environment that is not high-temperature

- Disconnect a connector between SP TERMINA (L) Assy (SPL1) and MX AUDIO Assy (A3).
- Disconnect a connector between MX AUDIO Assy (A5) and RGB Assy (R8).
- Disconnect a connector between DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1).



Reference

Shut down temperature of each temperature sensor

TEMP2 data ≥ 150 (= 80°C)

TEMP3 data ≥ 101 (= 56°C)

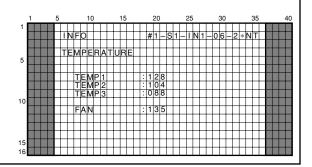
* TEMP1 is not shut down by temperature, and it shuts down when connector was disconnected.

Temperature display by "INFORMATION" of the factory menu

TEMP1 (°C) = TEMP1 (data) -50

TEMP2 (°C) = TEMP2 (data) /2+5

TEMP3 (°C) = TEMP3 (data) /2+5



(5) FAN NG

When a fan does not function, this NG occurs. Shut down after OSD display for 30 seconds from the NG detection.

- * FAN NG detection functions only in case of following.
- · When FAN CONTROL setting is maximum
- When sensor temperature of TEMP3 is more than 30°C with FAN CONTROL setting is AUTO.

(even if connector is left when does not turn the FAN, this unit does not work.)

Abnormality to expect

- Disconnect a junction connector between FAN (A6) and MX AUDIO Assy (A7).
- Disconnect a connector between MX AUDIO Assy (A5) and RGB Assy (R8).
- FAN forced stop by an alien substance involving it.



When a main microcomputer failed in communication with a module microcomputer, this NG occurs.

Shut down after OSD display for 30 seconds from the NG detection.

* However, this communication NG may occur by the standby state.

Abnormality to expect

- Open / Short of communication line in the Assy.
- Disconnect a connector between RGB Assy (R3) and DIGITAL VIDEO Assy (D3).
- Writing defectiveness of module microcomputer (IC1207) software.

7 Wide microcomputer NG

When a main microcomputer failed in communication with a wide microcomputer, this NG occurs.

Shut down after OSD display for 30 seconds from the NG detection.

Abnormality to expect

- Open / Short of communication line in the Assy.
- Software writing defectiveness of wide microcomputer (IC5601).
- Writing defectiveness of outside Flash ROM (IC5602) on the wide microcomputer.

8 RGB-IIC communication NG

When a main microcomputer failed in IIC communication, this NG occurs. Shut down after OSD display for 30 seconds from the NG detection.

* However, this communication NG may occur by the standby state.

Abnormality to expect

- Open / Short of communication line in the Assy.
- SLOT and the insertion of the SLOT junction PC Board are incomplete.

Notes: There is the case that it becomes the following symptom except NG when the SLOT insertion is incomplete.

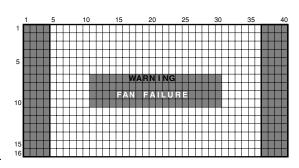
- · Audio of INPUT3 and 4 are not output.
- Do not switch from INPUT3 to 5 (SLOT function).
- · Video signal of INPUT1 and 2 are not appear.

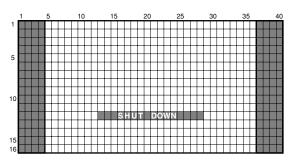
9 Audio NG

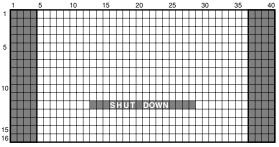
When DC component added on the speaker output line, this NG occurs. After the NG detection, shut down immediately.

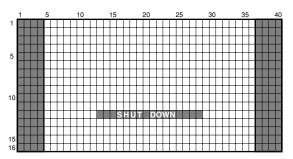
Abnormality to expect

- Disconnect a connector between MX AUDIO Assy (A5) and RGB Assy (R8).
- Short-circuits between + and of C8615 and C8622.

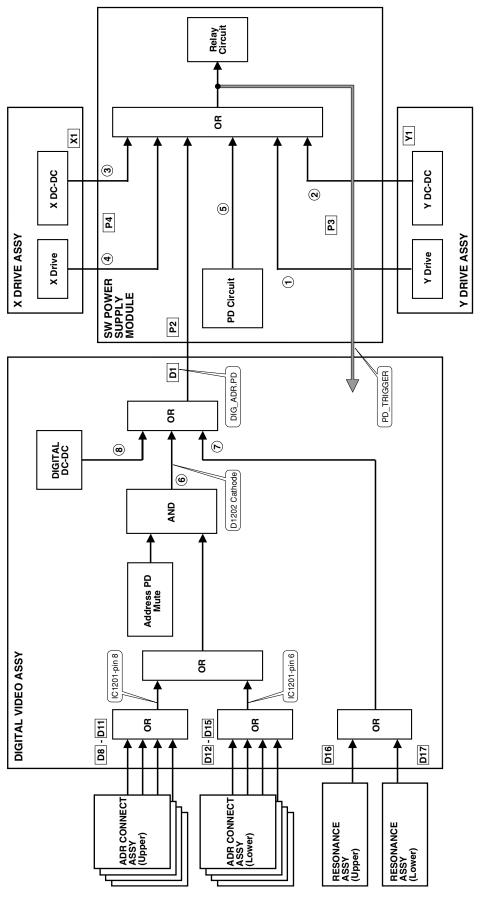








Block Diagram of Power Down Signal System



Note: $\ensuremath{\mathbb{D}}$ - $\ensuremath{\mathbb{B}}$ show LED flashing number of times when power down occurred in this route.

• Kind and function of the various protection circuit (P.D. circuit)

Assy Name	OSD Display	Red LED Number of Blinks	Kind of P.D. Circuit	Function	Remarks
	Y-DRV	1	VCP OCP	P.D. by VCP overcurrent	
			VOFS OVP	P.D. by VOFS overvoltage	
V DDIVE Assu			VOFS UVP	P.D. by VOFS undervoltage (= overcurrent)	
Y DRIVE Assy	Y-DDC	2	VH OVP	P.D. by VH overvoltage	
			VH UVP	P.D. by VH undervoltage (= overcurrent)	
			IC5V UVP	P.D. by IC5V undervoltage (= overcurrent)	
	X-DDC	3	VRN OVP	P.D. by VRN overvoltage	
V DDIVE Accu	X-DDC	3	VRN UVP	P.D. by VRN undervoltage (= overcurrent)	
X DRIVE Assy	X-DRV	4	VCP OCP	P.D. by VCP overcurrent	
	X-DRV	4	RESET OCP	P.D. by reset circuit overcurrent	
			VSUS OVP	P.D. by VSUS overvoltage	
			VSUS UVP	P.D. by VSUS undervoltage (= overcurrent)	
			VADR OVP	P.D. by VADR overvoltage	
			VADR UVP	P.D. by VADR undervoltage (= overcurrent)	
	POWER		15V OVP	P.D. by 15V overvoltage	
			15V UVP	P.D. by 15V undervoltage (= overcurrent)	
			12V UVP	P.D. by 12V undervoltage (= overcurrent)	
SW POWER SUPPLY		5	6.5V OVP	P.D. by 6.5V overvoltage	
Module		5	6.5V UVP	P.D. by 6.5V undervoltage (= overcurrent)	
			13.5V UVP	P.D. by 13.5V undervoltage (= overcurrent)	
			-9V UVP	P.D. by -9V undervoltage (= overcurrent)	
			+B OVP	P.D. by +B overvoltage	
			+B OCP	P.D. by +B overcurrent	
			AC200V P.D.	P.D. by AC200V apply	Note 1
				PFC module overheat protection	
				VSUS arc resistance overheat protection	
ADR CONNECT Assy	ADRES	6	ADR.PD	P.D. by disconnecting the connector	
RESONANCE Assy	ADR-K	7	ADR.K.PD	P.D. by ICP open and TCP defective	
			5.0V OVP	P.D. by 5V overvoltage	
			5.0V UVP	P.D. by 5V undervoltage (= overcurrent)	
DIGITAL VIDEO Accur	DC-DC	8	3.3V OVP	P.D. by 3.3V overvoltage	
DIGITAL VIDEO Assy	טט-טט	0	3.3V UVP	P.D. by 3.3V undervoltage (= overcurrent)	
			2.5V OVP	P.D. by 2.5V overvoltage	
			2.5V UVP	P.D. by 2.5V undervoltage (= overcurrent)	

Reference

OVP : Over Voltage Protect UVP : Under Voltage Protect OCP : Over Current Protect

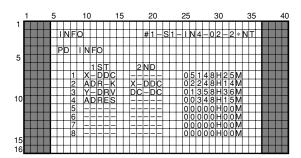
Note 1: AC200V P.D. is not applicable to the PDP-503MXE model.

• Diagnosis Method in Power Down

1st/2nd/time stamp are stored eight times of power down in the past.

1 OSD display of PD history

Display with "INFORMATION" of the factory menu.



Display of PD point

Power Down Point	OSD Display
Y-DRIVE	Y-DRV
Y-DC/DC COVERTER	Y-DDC
X-DC/DC CONVERTER	X-DDC
X-DRIVE	X-DRV
Power supply	POWER
ADDRESS junction	ADRES
ADDRESS resonance	ADR-K
DC/DC CONVERTER (DIGITAL)	DC-DC

Time stamp display

[OOOOOH]: HOUR, [OOM]: MINUTE

Example)

Time stamp display is $[65432H10M] \rightarrow 65432$ hours 10 minutes

2 PD history read in by RS-232C command "GPD"

Order	Data contents	Size			
1	The latest 1st PD point				
2	The latest 2nd PD point				
3	The latest PD time stamp				
4	1st PD point before twice	1 byte			
5	2nd PD point before twice	1 byte			
6	PD time stamp before twice	7 byte			
7	1st PD point before three times				
8	2nd PD point before three times				
9	PD time stamp before three times	7 byte			
10	1st PD point before four times				
11	11 2nd PD point before four times				
12	12 PD time stamp before four times				
13	1st PD point before five times				
14	2nd PD point before five times				
15	PD time stamp before five times				
16	1st PD point before six times				
17	2nd PD point before six times				
18	18 PD time stamp before six times				
19	19 1st PD point before seven times				
20	2nd PD point before seven times				
21	PD time stamp before seven times	7 byte			
22	1st PD point before eight times	1 byte			
23	2nd PD point before eight times				
24	PD time stamp before eight times	7 byte			

Data of PD point

Power Down Point	"GPD" Data
Y-DRIVE	1
Y-DC/DC COVERTER	2
X-DC/DC CONVERTER	3
X-DRIVE	4
Power supply	5
ADDRESS junction	6
ADDRESS resonance	7
DC/DC CONVERTER (DIGITAL)	8

Time stamp data

before 5 byte: HOUR, after 2 byte: MINUTE

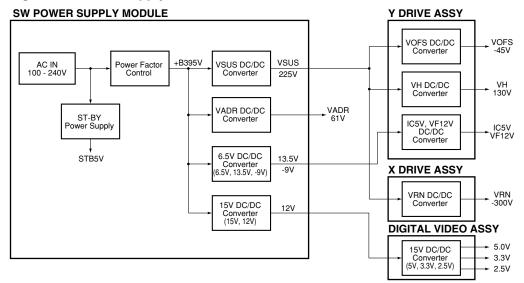
Example)

Time stamp is $[6543210] \rightarrow 65432$ hours 10 minutes

When the voltage is not output even if P4, P3 and P6 connectors disconnected Drive section (control signal, output elements etc.) in Drive section (control signal, output elements etc.) in Drive section (control signal, output elements etc.) in When P4 connector disconnected, P.D. does not occur When P3 connector disconnected, P.D. does not occur When P6 connector disconnected, P.D. does not occur When pin 5 of P2 connector disconnected, P.D. does The condition that Red LED blinks five times (power supply PD)

When the internal protection circuit of SW POWER SUPPLY Module worked Being careful because the protection circuit of SW POWER SUPPLY Module cannot conclude that worked. VOFS D/D CONV. BLOCK in normal operation When a microcomputer was not able to identify the PD point IC5V D/D CONV. BLOCK in normal operation VRN D/D CONV. BLOCK in normal operation VH D/D CONV. BLOCK in normal operation Diagnosis Condition SCAN Assy in normal operation SCAN Assy in normal operation Note: About PS PD normal operation normal operation normal operation not occur N Operation P.D. Circuit ADR. K. PD VOFS OVP **VOFS UVP** VCP OCP VRN OVP VCP OCP 5.0V OVP 5.0V UVP 3.3V OVP 3.3V UVP 2.5V OVP IC5V UVP VRN OCP 2.5V UVP VRN UVP ADR. PD VH UVP VH OVP Diagnosis of the error point in the various protection circuit (P.D. circuit) operation (Red LED blinks) Circuit State K1901 Lo K3708 Lo K3102 Lo K1903 Lo K1904 Lo K1906 Lo K2712 Lo K2709 Lo K2719 Lo K2718 Lo K2713 Lo K3705 Lo K3103 Lo K1902 Lo K1905 Lo K2211 Lo TCP damage of IC6704 (ICP), disconnect D16 and D17 connectors, panel microcomputer is defective, outside Flash ROM of the panel microcomputer is IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2213, IC2217, R2209 IC3200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3110, IC3113, R3109 Possible Part of Error Q2211, Q2212, R2277, IC2208, IC2210 Disconnect D8 - D15 connectors C2701, IC2702, IC2709, IC2715 IC2206, IC2214 (Pulse module) IC3200, IC3201 (Pulse module) SW POWER SUPPLY Module IC2702, IC2709, IC2715 IC2704, IC2706, IC2717 IC3701, IC3702, IC3712 IC2704, IC2706, IC2717 IC2711, IC2712, IC2716 C8601 (Audio IC) IC2712, IC2716 IC3702, IC3712 defective. SCAN IC SCAN IC IC1901 IC1901 Q3122 Q3122 D/D CONV. BLOCK (DIGITAL VIDEO Assy) | IC1901 D/D CONV. BLOCK (DIGITAL VIDEO Assy) D/D CONV. BLOCK (DIGITAL VIDEO Assy) VOFS D/D CONV. BLOCK (Y DRIVE Assy) D/D CONV. BLOCK (DIGITAL VIDEO Assy) /OFS D/D CONV. BLOCK (Y DRIVE ASSY) IC5V D/D CONV. BLOCK (Y DRIVE Assy) VRN D/D CONV. BLOCK (X DRIVE Assy) IC5V D/D CONV. BLOCK (Y DRIVE Assy) VRN D/D CONV. BLOCK (X DRIVE Assy) VH D/D CONV. BLOCK (Y DRIVE Assy) VH D/D CONV. BLOCK (Y DRIVE Assy) ADDRESS CONNECT A - D Assy, ADDRESS CONNECT A~D Assy SW POWER SUPPLY Module **Error Pont** SCAN (A), (B) Assy SCAN (A), (B) Assy RESONANCE Assy RESONANCE Assy MX AUDIO Assy Y DRIVE Assy X DRIVE Assy X DRIVE Assy X DRIVE Assy Y DRIVE Assy P.D. Point in Operation X DC DC Y DRIVE Y DC DC X DRIVE DIGITAL DC DC **ADRK** ADR PS umber Blinks Q က 4 2 ဖ _ ω

Block diagram for Power supply section



Supplementary information

1. Power on/off switch for the large-signal system (SW102)

Function: Only the power for the small-signal system (15V, 12V, 6.5V, 13.5V, and -9V) is on, and the power for the large-signal system (VSUS, VADR) is off

Usage: Use when only an operational check for the small-signal system is required.

Supplementary information:

When this switch is to be used, the wires of pin 5 (DIG, ADR, and PD) of the P2 connector of the power-supply module should be disconnected to prevent the PD circuit from operating. To turn the power of the large-signal system off without using this switch, operation from an external PC through RS-232C commands "DRF" is basically required. In this case, the above procedure is not required, as the PD circuit is muted by software.

Method of power supply ON in the large signal system OFF state with RS-232C command

- ① Confirm that this unit is the standby state.
- 2 Transmit RS-232C command "DRF."
- ③ Turn the power supply ON by remote control unit, side key or command "PON."
- * When turn the power supply OFF once, return to setting of large signal system ON.

When turn the power supply ON in the large signal system OFF, transmit "DRF" command each time.

2. 200V AC power-down switch (SW101)

Function: While 200V AC voltage is applied, operation of the PD circuit is turned on and off (ON when the switch is set to 100V AC, and OFF when the switch is set to 200V AC).

Setting: For the MXE model only, the switch is set to 200V, and for other models, it is set to 100V.

3. Temperature compensation of the VOFS voltage for the drive system

Function: Control the power supply voltage mentioned above according to temperature. (Temperature compensation works so that the voltage is lowered on the lower-temperature side, and is raised on the higher-temperature side.)

Purpose: To improve the yield by compensating the temperature characteristics of the panel.

Supplementary information:

For this model, temperature compensation is performed only for the VOFS voltage, and not for the VSUS voltage, and it is controlled by software.

4. When a fuse blows

- If a fuse blows, never turn the power on again only after replacing the fuse. (In most cases, the fuse itself did not have any problem. So as long as factors of overcurrent have not been removed, chances of destruction increase every time the power is turned on. In the worst case, about a dozen parts may be destroyed.)
- Principally, the whole power-supply module must be replaced.

5. Voltage adjustment of the panel drive

As this model employs the electronic VR system for the VSUS and VOFS voltages, and as the voltage-adjustment data are stored in the DIGITAL assembly, voltage adjustment of the panel drive is not necessary when the power-supply modules are changed. (For VADR, VH, and VRN, adjustments with semifixed VR controls are necessary.)

For this model, as the power-supply block has been developed and designed by an outside vendor, at the point you know which module is a cause of failure (through diagnosis described elsewhere in this manual), change the corresponding modules, and do not diagnose or repair the module.

Similarly, the switches and the semifixed VRs inside the powersupply module must not be adjusted without a special reason.

7.1.3 AUTOMATIC BACKUP OF DIGITAL VIDEO ASSY DATA

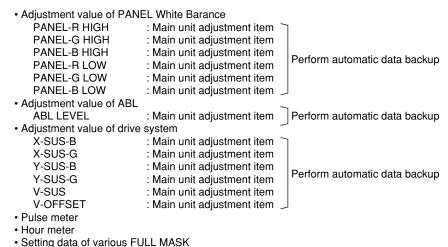
Description

Auto copies data of EEPROM (IC1204/2k bit) on the DIGITAL VIDEO Assy as data for backup in the Assy replacement to one part of EEPROM (IC5502/64k bit) of the RGB Assy (area A of figure below).

Therefore DIGITAL VIDEO Assy or main unit adjustment item in the RGB Assy replacement (data of EEPROM on DIGITAL VIDEO Assy) is succeeded to Assy after replacement.

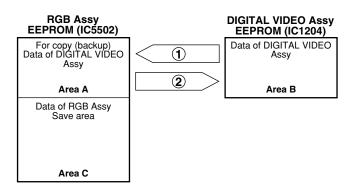
Note: COLOR and TINT are main unit adjustment items, but does not automatic backup because there are data in area C (refer to figure below).

Contents of EEPROM on the DIGITAL VIDEO Assy



■ Flow of basic automatic backup

Use a key word, and judge each data (area A and B) whether it is the adjusted data or the not adjusted data, and perform the copy operation.



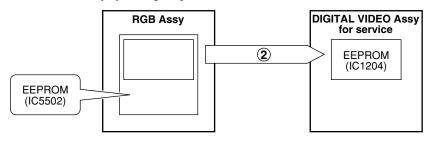
- ① Perform the copy whenever enter the service factory mode. (There is not relation in a key word.)
- ② In the power supply ON, confirm a key word, and perform the copy when a key word of DIGITAL VIDEO Assy (area B) does not adjust and a key word of RGB Assy is adjustment complete.

Actual automatic backup operation

1. In the DIGITAL VIDEO Assy replacement (Use the service Assy)

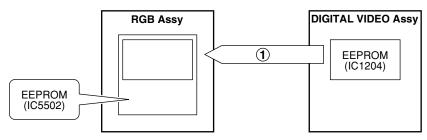
Do not need modification of key words.

Replace DIGITAL VIDEO Assy with DIGITAL VIDEO Assy for service, and auto copies the backup data from EEPROM of RGB Assy to EEPROM of DIGITAL VIDEO Assy by turning the power on.



2. In the RGB Assy replacement (Do not need to be service Assy.)

Replace RGB Assy, and auto copy from EEPROM of DIGITAL VIDEO Assy to EEPROM of RGB Assy as for backup by enter the service factory mode.



3. In the DIGITAL VIDEO Assy replacement (Recycling of a repair part)... When install DIGITAL VIDEO Assy after repair to other sets.

Set a key word of DIGITAL VIDEO Assy to recycle in "Do not adjust".

Enter the service factory mode before removing the DIGITAL VIDEO Assy to recycle, and execute SERVICE PARTS of item INITIALIZE. (However, limit it when work as the main unit and OSD display is possible.)

Readjustment is necessary when cannot execute SERVICE PARTS.

Note: When does not change key word and repairs the DIGITAL VIDEO Assy and installed the DIGITAL VIDEO Assy after repair in another set 2, this function does not work in normal.

In addition, when have entered the service factory mode in the state mentioned above, copy data in the DIGITAL VIDEO Assy of set 1 before repair to area A in the RGB Assy of set 2 to install after repair.

Therefore necessary data have been performed overwrite with set 2.

Cannot replace the data which performed overwriting once.

4. In the DIGITAL VIDEO Assy replacement (Recycling of a repair part)... When install the DIGITAL VIDEO Assy after repair to the former set

Do not need modification of key words.

After repair the DIGITAL VIDEO Assy, work with the main unit adjustment value as before by installing it to the former set. Perform the same operation as item 1 afterward.

5. When replace the DIGITAL VIDEO Assy and the RGB Assy to another Assy simultaneously Normal copy with this function does not work. Readjustment is necessary.

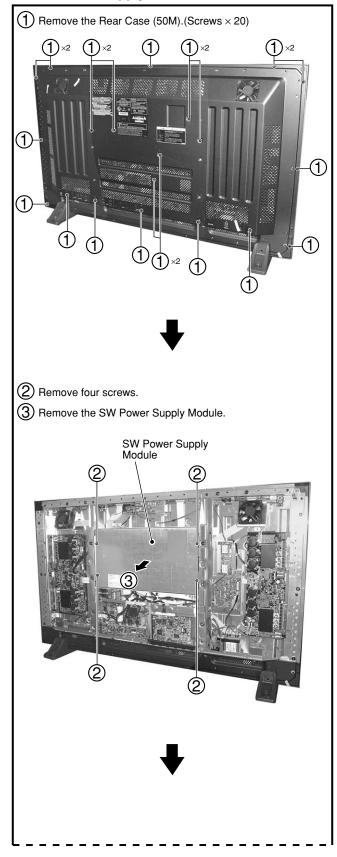
Others

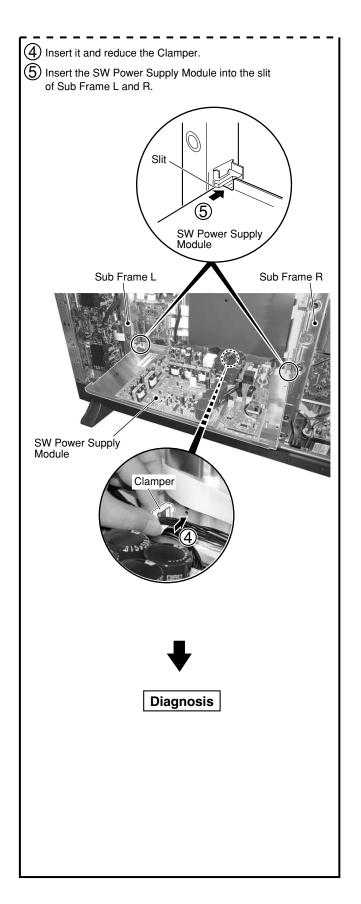
- COLOR and TINT are main unit adjustment items, but does not automatic backup because there are data in area C.
 About these two items
 - ① When replaced only the DIGITAL VIDEO Assy
 - Readjustment is unnecessary so that data is stored in the RGB Assy.
 - ② When replaced the RGB Assy
 - Readjustment is necessary after repair.
- 2. Data in EEPROM of the RGB Assy (area C) are Assy adjustment items except COLOR and TINT.

Do not need a readjustment when replaced the Service Assy.

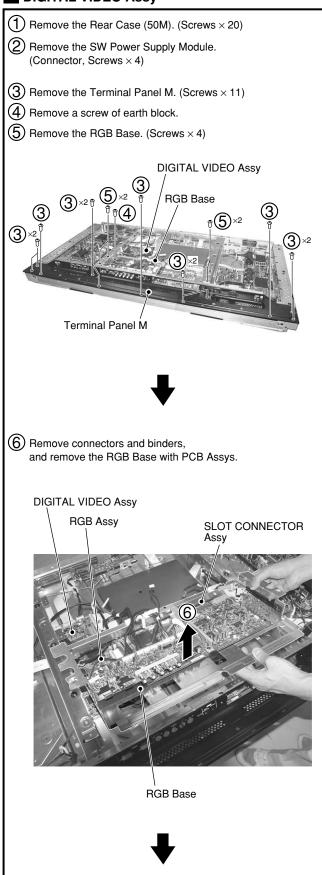
7.1.4 DISASSEMBLY

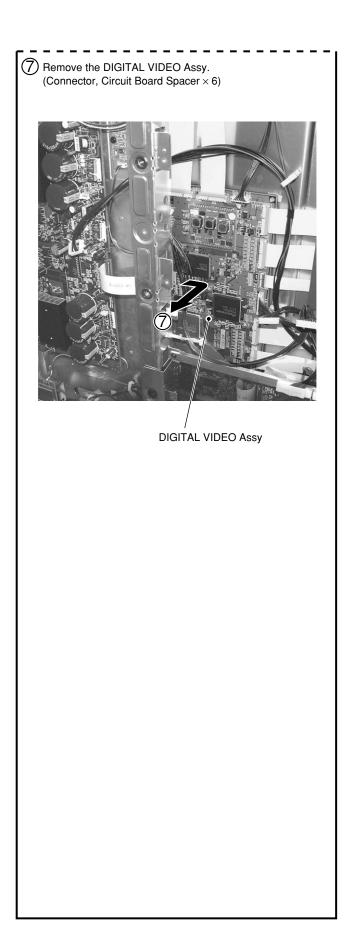
SW Power Supply Module



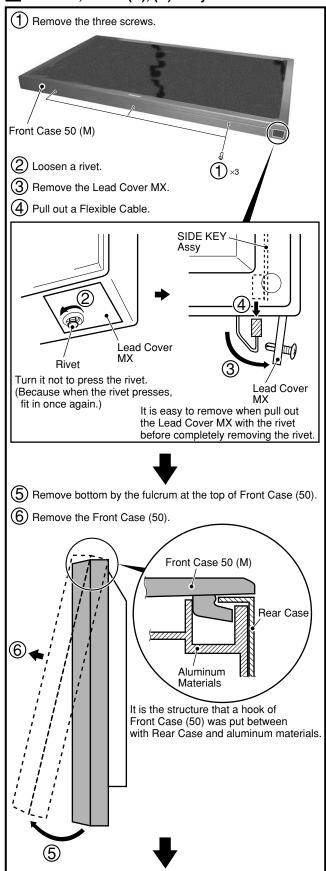


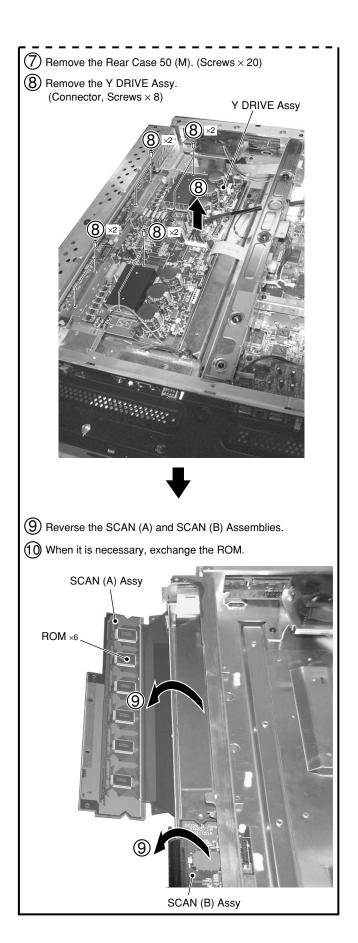
DIGITAL VIDEO Assy



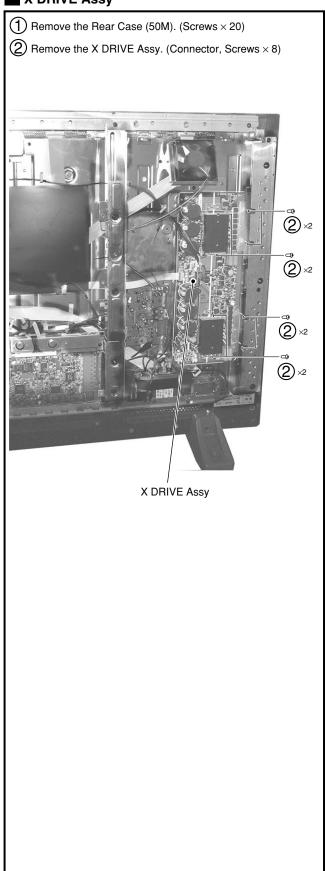


Y DRIVE, SCAN (A), (B) Assy

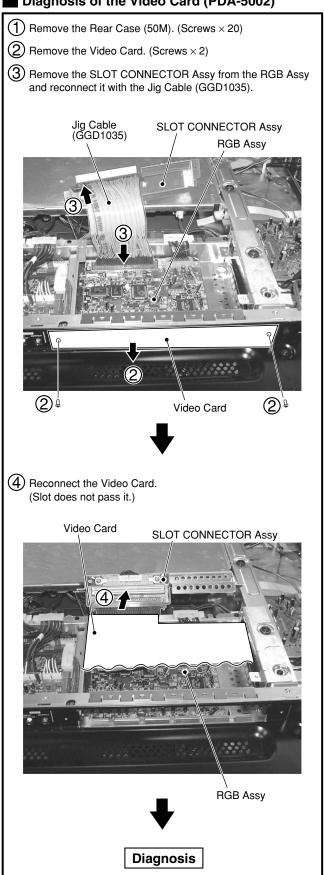




X DRIVE Assy



Diagnosis of the Video Card (PDA-5002)



7.2 IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

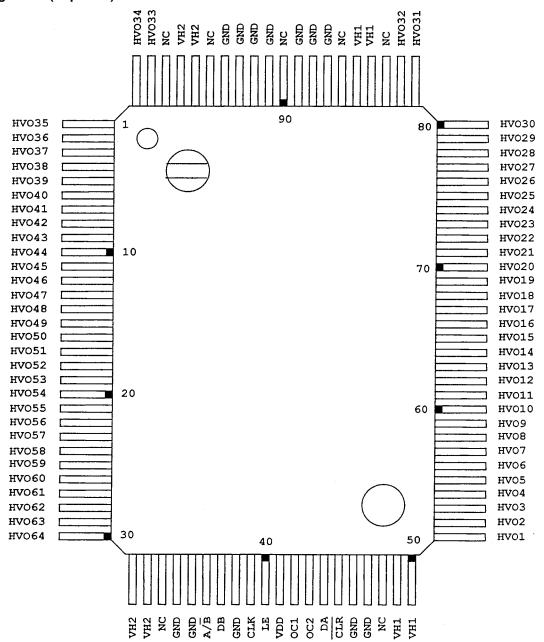
List of IC

SN755860PJ, M30624FGAFP, HD64F2328VF, GAL22V10, M30624FGAFP, PD6358A, PST9246N, FS781BZB, ML6426CS-1, CXA3516R, BA5417, STK795-460, TFP201A

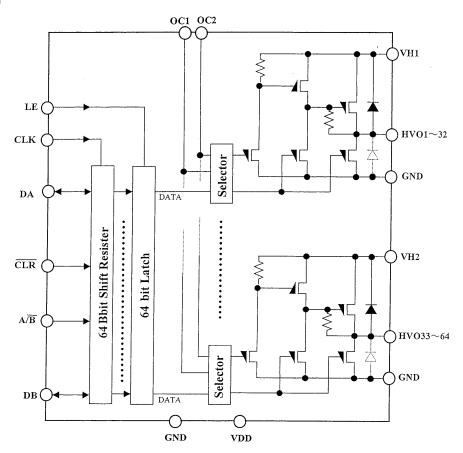
■ SN755860PJ (SCAN A ASSY : IC6201 - IC6206) SN755860PJ (SCAN B ASSY : IC6001 - IC6006)

• Scan IC

• Pin Assignment (Top view)



• Block Diagram



• Pin Function

Name	Pin No.	I/O	Num.	Function
CLK	39	I	1	Shift clock (start edge partial response)
DA	44	I/0	1	The serial data input of shifting register
DB	37	I/0	1	The serial data output of shifting register
LE	40	I	1	It output data done a latch of by "L" level.
A/\overline{B}	36	I	1	A shift directional control signal of shift register
CLR	45	I	1	It do data of shift register with "L" by "L" level.
OC1	42	I	1	An output control terminal of HVO
OC2	43	I	1	An output control terminal of HVO
HVO	1-30, 51-82, 99, 100	0	64	High voltage drive output (HV01-HV064)
VDD	41	-	1	Logic power supply
GND	34, 35, 38, 46, 47, 87-89, 91-94	_	- 12	Standard potential.
			12	This is common to HV01-HV064.
VH1	84, 85, 49, 50	_	4	The high potential circuit power supply which is common to HV01-HV032
VH2	31, 32, 96, 97	-	4	The high potential circuit power supply which is common to HV033-HV064
NC	33, 48, 95, 83, 86, 90, 98	-	7	It is the insulation electrically

■ M30624FGAFP (RGB ASSY : IC5505)

• Main Microcomputer

• Pin Function

No.	Pin Name	Function				
1	TXD	Serial 3 line data output				
2	CLK	Serial 3 line clock				
3	FAN	FAN control				
4	VOL	Audio VOL control				
5	H_SYNC	Horizontal synchronizing signal input for signal distinction				
6	V_SYNC	Vertical synchronizing signal input for signal distinction				
7	DPMS	SYNC select for power management				
8	BYTE	GND				
9	CNVSS	Power supply in flash writing, STB +5V				
10	NC	Non connection				
11	XCONT (Not used)	GND				
12	RST	Reset input				
13	XOUT	Main clock output				
14	VSS	GND				
15	XIN	Main clock input				
16	VCC	5V standby power				
17	Not used	Pull-up				
18	REM	Remote control signal input				
19	REQ_MD	Communication request from the module microcomputer				
20	KEY_SCAN	Key data input				
21	WP SW	E2PROM write permission for Plug &Play				
22	SLOT_ST2	Inside / outside product distinction of SLOT				
23	FUNC1	Outside product SLOT function output 1				
24	FUNC2	Outside product SLOT function output 2				
25	NC					
26	NC	Non connection				
27	NC					
28	NC					
29	SCL	Clock output for IICbus				
30	SDA	Data input/output for IICbus				
31	TXD1	Data output (flash writing / external equipment communication)				
32	RXD1	Data input (flash writing / external equipment communication)				
33	CLK1	Clock for flash writing				
34	BUSY1	Busy for flash writing				
35	TXD0	Data output for communication with the module microcomputer				
36	RXD0	Data input for communication with the module microcomputer				
37	LED_G	Green LED lighting				
38	LED_R	Red LED lighting				
39	NC	Non connection				
40	IN1DET	INPUT1 input detection				
41	EPM	EPM input for flash writing				
42	AUDIO_NG	Audio NG detection				
43	NC	Non connection				
44	NC					
45	OSD_CE	Enable for OSD				
46	CE	CE input for flash writing (pull-up)				
47	WU_CE	Enable for waide microcomputer				
48	FAN_NG	NG detection for fan				
49	IN5DET	Video signal input detection				
50	CB_MUTE	Combination mute				

No.	Pin Name	Function		
51	FR_SEL	Output free running in the video signal no input		
	RGB_SEL	Input switch of INPUT1 (Dsub15) / INPUT2 (BNC)		
53	POWER	POWER ON/OFF output		
	BUSY	Busy input from the microcomputer		
	BUSY30	Busy input from IC30		
	IN3DET	INPUT3 input detection		
	IN4DET	INPUT4 input detection		
	ACL_SW	Switch the peak ACL function		
	NC	Non connection		
60	PNL_MUTE	Panel drive stop		
61	NC	Non connection		
	VCC	5V standby power		
	I_DET	I/P distinction signal (extra)		
	VSS	GND		
	NC	Non connection		
	DIN_SEL	Digital input switch trigger (IC102 side)		
67	SDIN_SEL	Digital input switch trigger (IOTO2 side)		
68	FWE	Enable for flash writing of the wide microcomputer		
69	MD2	Mode setting for flash writing of the wide microcomputer		
	RST_WU	Reset the wide microcomputer		
	WE WU	Flash writing permission output for wide microcomputer		
72	WE_MD	Flash writing permission output for module		
	NC	Non connection		
	REQ_WU	Communication request from the wide microcomputer		
	RST2	·		
	EXT_INT	Reset detection of wide microcomputer system 3.3V power supply		
		Input signal switch		
	A_MUTE1	Audio mute 1 Audio mute 2		
	A_MUTE2			
	H_POL V_POL	H.SYNC polarity distinction V.SYNC polarity distinction		
		I2C-BUS clock of E2PROM exclusive use		
	(E)SCL			
	(E)SDA EEPRST	I2C-BUS data of E2PROM exclusive use		
	_	E2PROM reset		
	FIX_VAR	AUDIO output signal switch (fixing, variable)		
	SYNC_ST	Presence distinction input of SYNC		
	NC	Non connection		
	NC	Tringer for complyance and proceeding time about pring		
	SIGRST	Trigger for synchronous processing time shortening		
	NC	Non connection		
	PLD_CE	Enable for SYNC control PLD		
	NC	Non connection		
	NC			
	SLOT_ST	A/D input for model distinction		
	TEMP3	A/D input for temperature sensor 3		
	TEMP2	A/D input for temperature sensor 2		
	AVSS	GND for AD conversion (GND connection)		
	PM_ST	Pull-up		
	VREF	AD conversion reference voltage		
	AVCC	Power supply for AD conversion		
100	RXD	Serial 3 line data input		

■ HD64F2328VF (RGB ASSY : IC5601)

• Wide Microcomputer

●Pin Function

No.	Pin Name	Function		
1	NC	Non connection		
2	Not used	PU		
3	VSS	GND		
4	NC	Non connection		
5	VCC	3.3V power supply		
6	UA0	Address bus 0 with each IC		
7	UA1			
8	UA2	Address bus		
9	UA3			
10	VSS	GND		
11	UA4			
12	UA5			
13	UA6			
14	UA7	Addross hus		
15	UA8	- Address bus		
16	UA9			
17	UA10			
18	UA11			
19	VSS	GND		
20	UA12			
21	UA13	A deluca a hura		
22	UA14	- Address bus		
23	UA15			
24	UA16			
25	UA17	Address has for advantaged flock many		
26	UA18	Address bus for external flash memory		
27	UA19			
28	VSS	GND		
29	WU_CE	Main microcomputer communication enable		
30	NC	Non connection		
31	VI	Vertical synchronization interrupt input		
32	VACT_FRC	Vact interrupt input after frame rate conversion		
33	DE_W	DE interrupt for start line detection of panel link input V		
34	VD_W	Vertical synchronization interrupts before FRC		
35	VSS	CND		
36	VSS	- GND		
37	VACT_IP	Histogram acquisition interrupt input		
38	FILM_IP	Acquisition interrupt input of film information		
39	VCC	3.3V power supply		
40	UD0			
41	UD1	Data hua		
42	UD2	Data bus		
43	UD3			
44	VSS	GND		
45	UD4	Data bus		

No.	Pin Name	Function		
46	UD5			
47	UD6			
48	UD7			
49	UD8	Data bus		
50	UD9			
51	UD10			
52	UD11			
53	VSS	GND		
54	UD12			
55	UD13			
56	UD14	Data bus		
57	UD15			
58	VCC	3.3V power supply		
59	D_TXD	Communication data output to the main unit microcomputer		
60	EXT_TXD	232C communication output to the external personal computer (FLASH2)		
61	D_RXD	Communication data input from the main unit microcomputer		
62	EXT_RXD	232C communication input from the external personal computer (FLASH2)		
63	D_CLK	Communication clock input from the main unit microcomputer		
64	D_BUSY	BUSY for the main unit microcomputer		
65	VSS	GND		
66	CS_30	Chip select output for IC30		
67	VSS			
68	VSS	GND		
69	CS_FLASH	Chip select output for 16M flash		
70	A19_FLASH	Control output of 16M flash address A19		
71	REQ_WU	Request for the main unit microcomputer		
72	CE_W	DE for start line detection of panel link input V		
73	VD_W	Vertical synchronization before FRC		
74	NC			
75	NC			
76	NC	Non connection		
77	NC			
78	NC			
79	SGLB_AD	Switching output of a clock and 1/2 clock		
80	FWE	Writing enable signal input for built-in flash memory		
81	RESET	Reset input from the main unit microcomputer and reset IC		
82	Not used	Pull-up		
83	Not used	T dil dp		
84	VCC	3.3V power supply		
85	XTAL	Connect a ceramic resonator (25MHz)		
86	EXTAL			
87	VCC	3.3V power supply		
88	PHAI	System clock output		
89	VCC	3.3V power supply		
90	SGLB_IP	Single input selecting output of IC102		

No.	Pin Name	Function	
91	RDB	Reading of external address space	
92	HWRB	Upper rank data (D15 to D8) writing of external address space	
93	PLL_CE	Chip enable signal output for AD/PLL	
94	WAIT_IP	WAIT input for IC102	
95	NC		
96	NC	Non connection	
97	TXD_WU	Communication data output (AD/PLL)	
98	NC	Non connection	
99	VSS	OND	
100	VSS	GND	
101	SCK_WU	Communication clock input/output (AD/PLL)	
102	WAIT_FLASH	WAIT input for external flash memory	
103	AVCC	3.3V power supply	
104	VREF	A/D and D/A reference voltage input	
105	ULK_PLL	PLL unlock signal input	
106	EXT_FILM	External film signal input	
107	Not used	D.H	
108	Not used	- Pull-up	
109	ACL_PC	ACL input for PC (A/D input)	
110	Not used	Pull-up	
111	INa_30	N/C	
112	INb_30	- NC	
113	AVSS	OND	
114	VSS	GND	
115	NC	N	
116	NC	Non connection	
117	HD_W	Horizontal sync. signal	
118	FI	FILM mode detecting input	
119	HI	Horizontal sync. count input	
120	FDET_IP	System frequency detecting input	
121	EMG_IP	IC102 forced hardware through output	
122	IP_KILL	IC101 forced stop output	
123	MD0	Wide microcomputer operation mode (mode 6 fixing) (0)	
124	MD1	Wide microcomputer operation mode (mode 6 fixing) (1)	
125	MD2	Wide microcomputer operation mode (mode 6 fixing) (2)	
126	IC_RST	Reset signal input for ASIC	
127	CS_102	Chip select output for IC102	
128	CS_101	Chip select output for IC101	

■ HD64F2328VF (DIGITAL VIDEO ASSY : IC1101)

• Panel Microcomputer

• Pin Function

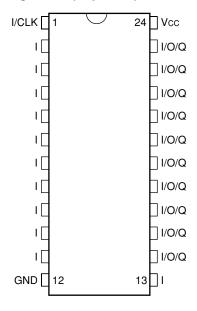
No.	Pin Name	Function
1	CS_23	PE5064 (IC 1703) control output
2	NC	NC terminal
3	VSS	GND
4	VSS	GND
5	VCC	3.3V power supply
6	UA0	Address bus
7	UA1	Address bus
8	UA2	Address bus
9	UA3	Address bus
10	VSS	Address bus
11	UA4	Address bus
12	UA5	Address bus
13	UA6	Address bus
14	UA7	Address bus
15	UA8	Address bus
16	UA9	Address bus
17	UA10	Address bus
18	UA11	Address bus
19	VSS	GND
20	UA12	Address bus
21	UA13	Address bus
22	UA14	Address bus
23	UA15	Address bus
24	UA16	Address bus
25	UA17	Address bus
26	UA18	Address bus
27	UA19	Address bus
28	VSS	GND
29	UA20	Address bus
30	PA5	NC terminal
31	PA6	NC terminal
32	PA7	NC terminal
33	CE_PN	Enables/ for panel microcomputer
34	CE_PN	Enables/ for panel microcomputer
35	VSS	GND
36	VSS	GND
37	APLP	The APL value acquisition trigger signal input.
38	VD_31	The V signal input from IC 1401 (PD 6358).
39	VCC	3.3V power supply
40	UD0	Data bus
41	UD1	Data bus
42	UD2	Data bus
43	UD3	Data bus
44	VSS	GND
45	UD4	Data bus
46	UD5	Data bus
47	UD6	Data bus
48	UD7	Data bus Data bus
49	UD8	Data bus Data bus
50	UD8	
50	פרוס	Data bus

No.	Pin Name	Function
51	UD10	Data bus
52	UD11	Data bus
53	VSS	GND
54	UD12	Data bus
55	UD13	Data bus
56	UD14	Data bus
57	UD15	Data bus
58	VCC	3.3V power supply
59	D_TXD	Communication with IC 1207 (a module microcomputer).
60	EXT_TXD	Communication with the outside (program notes).
61	D_RXD	Communication with IC 1207 (a module microcomputer).
62	EXT_RXD	Communication with the outside (program notes).
63	D_CLK	Communication with IC 1207 (a module microcomputer).
64	P60	NC terminal
65	VSS	GND
66	CS_FLASH	A flash memory control terminal
67	VSS	GND
68	VSS	GND
69	P61	NC terminal
70	UDREQ	IC 1703 (PE5064) control terminal
71	P63	NC terminal
72	WE_FLASH	A flash memory note control signal (unused).
73	BUSY	The command receipt of a message lye Norwich output
74	REQ_PU	A communication demand to a module microcomputer.
75	SEL23B	IC 1703 (PE5064) control terminal
76	CLRB	IC 1703 (PE5064) control terminal
77	FR_SEL	The free LAN select signal output
78	RST31B	The reset output to IC1301, IC1401(PD6358)
79	RST23B	The reset output to IC 1703 (PE5064)
80	FWE	Microcomputer program note control signal
81	RESET	Reset input
82	NMI	The at the rate of tang input (unuse)
83	STBY	The hardware standby input (unused)
84	VCC	3.3V power supply
85	XTAL	A clock oscillation child connection terminal
86	EXTAL	A clock oscillation child connection terminal
87	VSS	GND
88	PF7	NC terminal
89	VCC	3.3V power supply
90	PF6	NC terminal
91	RDB	A read control terminal from an outside slave device
92	HWRB	A wright control terminal to an outside slave device
93	PF3	NC terminal
94	PF2	NC terminal
95	PF1	NC terminal
96	PF0	NC terminal
97	P50	NC terminal
97	P50	NC terminal NC terminal
98	VSS	GND
100	VSS	GND
100	V 3 3	GIND

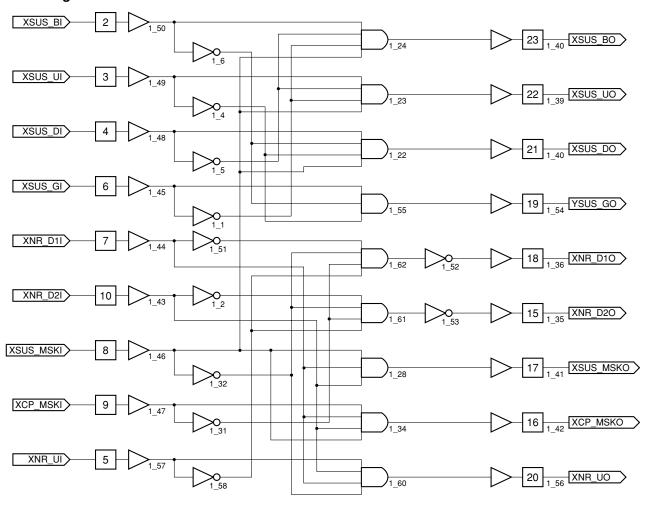
No.	Pin Name	Function
101	P52	NC terminal
102	P53	NC terminal
103	AVCC	3.3V power supply
104	VREF	A/D, D/A reference voltage input (unused)
105	STOPB	The drive control input from IC 1703 (PE5064)
106	P41	NC terminal
107	RYBY	The flash memory note ready input
108	ADR_K_EMG_L1	The emergency input from panel bottom address resonance block.
109	ADR_K_EMG_U1	The emergency input from panel upper part address resonance block
110	ADR_K_EMG_L2	The emergency input from panel bottom address resonance block. (unused)
111	ADR_K_EMG_U2	The emergency input from panel upper part address resonance block(unused)
112	P47	NC terminal
113	AVSS	GND
114	VSS	GND
115	MUTE_ADR	The panel mute signal output
116	MUTE_SUS	The XY drive mute signal output (unused)
117	P15	NC terminal
118	HD	The HD signal input from outside ASSY (RGB ASSY, etc)
119	P13	NC terminal
120	P12	NC terminal
121	PC_VIDEO	The PC/Video identification output
122	VD	The VD signal input from outside ASSY (RGB ASSY, etc)
123	MD0	The microcomputer mode of operation select signal input
124	MD1	The microcomputer mode of operation select signal input
125	MD2	The microcomputer mode of operation select signal input
126	PG0	NC terminal
127	CS_31Y	IC1301, IC1401(PD 6358) control terminal
128	CS_31X	IC1301, IC1401(PD 6358) control terminal

■ GAL22V10 (X DRIVE ASSY : IC2006)

- Drive Protect PLD
- Pin Assignment (Top View)

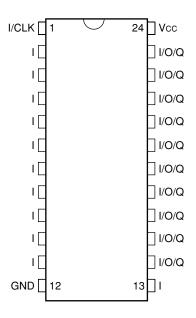


Block Diagram

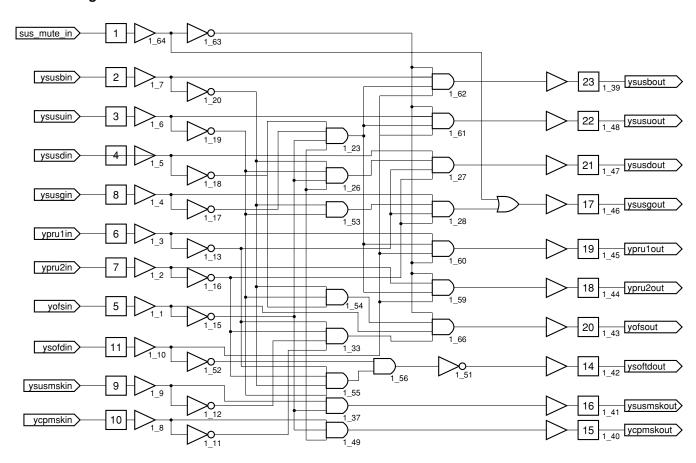


■ GAL22V10 (Y DRIVE ASSY : IC3003)

- Drive Protect PLD
- Pin Assignment (Top View)



• Block Diagram



■ M30624FGAFP (DIGITAL VIDEO ASSY : IC1207)

• Module Microcomputer

• Pin Function

No.	Pin Name	Function
1	TXD	Serial 3 line data output for communication with a panel microcomputer
2	CLK	Serial 3 line clock for communication with a panel microcomputer
3	NC	NC terminal
4	NC	NC terminal
5	NC	NC terminal
6	NC	NC terminal
7	NC	NC terminal
8	BYTE	The external data bus width reshuffling input (I am unused and connect GND)
9	CNVSS	A power supply for program note (a note, 5V, usually, pull-down
10	XCIN	NC terminal
11	XCOUT	NC terminal
12	RESET	A reset input terminal
13	XOUT	Clock output terminal
14	VSS	GND
15	XIN	Clock input terminal
16	VCC	5V standby power
17	NMI	Because a NMI interruption terminal is unused, It handle pull up.
18	REM	The SR signal input
19	REQ_PU	A communication demand from a panel microcomputer (the pulse meter acquisition)
20	/SW_TRG	Main switch OFF / ON search
21	NC	NC terminal
22	NC NC	NC terminal
23	NC NC	NC terminal
24	AC_OFF	AC power OFF search and power supply ASSY differentiation.
25	PD_TRIGGER	Power down search
26	NC	NC terminal
27	NC NC	NC terminal
28	NC NC	NC terminal
29	SCL	EEPROM, IIC communication with power supply ASSY
30	SDA	EEPROM, IIC communication with power supply ASSY
31	TXD1	Communication with the outside (a program note)
32	RXD1	Communication with the outside (a program note) Communication with the outside (a program note)
33	CLK1	Communication with the outside (a program note) Communication with the outside (a program note)
		· · · · · · · · · · · · · · · · · · ·
34	BUSY1	Communication with the outside (a program note)
35	TXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
36	RXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
37	NC	NC terminal
38	REQ_MD/A_MUTE	232C communication demand (a request to a main microcomputer) / audio system mute
39	NC	NC terminal
40	NC	NC terminal
41	EPM	The EPM input for program note (L fixation)
42	NC	NC terminal
43	PU_CE	Enables/ for panel microcomputer
44	NC	NC terminal
45	MOD_SW/A_NG	The model of machines distinction input / audio system NG input
46	CE	The CE input for program note (H fixation)
47	DITHER/SW_STC	Power supply search of a dither setting / media receiver for module
48	NC NC	NC terminal
49	/SW_STP	Power supply search of a panel
50	NC NC	NC terminal
30	140	The terminal

No.	Pin Name	Function
51	NC	NC terminal
52	RELAY	The output for power supply ON / OFF change
53	POWER/MSTATE	Input / SII861 master information for power supply ON / OFF change
54	NC	NC terminal
55	WE_PN	Buffer state control for panel microcomputer note
56	MD0	The panel microcomputer mode of operation change output
57	MD2	The panel microcomputer mode of operation change output
58	FWE	The panel microcomputer program note control signal output
59	RST_PU	The panel microcomputer reset output
60	PN_MUTE	The panel mute input
61	NC	NC terminal
62	VCC	5V standby power
63	NC	NC terminal
64	VSS	GND
65	NC	NC terminal
66	NC	NC terminal
67	/A_SCL	IIC clock for audio system
68	/A_SDA	IIC data for audio system
69	APD_MUTE	A mute signal of address series
70	ADR_K_PD	The address oscillatory system PD input
71	ADR_PD	The address series PD input
72	DCC_PD	The power supply system PD input
73	NC	NC terminal
74	NC	NC terminal
75	RST2	Panel microcomputer reset search
76	NC	NC terminal
77	/DDC_SCL	IIC communication with a media receiver
78	/DDC_SDA	IIC communication with a media receiver
79	NC	NC terminal
80	NC	NC terminal
81	DEW_DET	The dew condensation sensor input
82	NC	NC terminal
83	NC	NC terminal
84	NC	NC terminal
85	NC	NC terminal
86	LED_G	Green LED lighting (LED on interface ASSY in a panel module)
87	LED_R	Red LED lighting (LED on interface ASSY in a panel module)
88	NC	NC terminal
89	BUSY	Communication permission / inhibiting signal from a panel microcomputer
90	NC	NC terminal
91	NC	NC terminal
92	/F_KEY1	The front KEY input
93	MAX_PLS2/F_KEY2	The terminal / front KEY input for brightness setting mode of operation change
94	TEMP1	The A/D input for temperature sensor
95	MAX_PLS? /CCKM	Terminal / connection search for brightness setting mode of operation change
96	AVSS	GND for AD conversion
97	PM_ST	The A/D input for model of machines distinction
98	VREF	Reference voltage for AD conversion
99	AVCC	5V standby power for AD conversion
100	RXD	Serial 3 line data entry for communication with a panel microcomputer

■ PD6358A (DIGITAL VIDEO ASSY : IC1301)

• Picture Improved IC

• Pin Function

No.	Pin Name	Function
1	VSS	GND
2	TESTO6	Test output terminal (unused)
3	OSDCLK	The CLK input for OSD
4	TTST	Test input terminal (unused)
5	VDDI	2.5V power supply
6	OVDDE-01	3.3V power supply
7	AGO0	Address data output (G signal)
8	VDDI	2.5V power supply
9	AGO2	Address data output (G signal)
10	AGO3	Address data output (G signal)
11	AGO4	Address data output (G signal)
12	VDDI	2.5V power supply
13	ARO6	Address data output (R signal)
14	AGO7	Address data output (G signal)
15	VDDI	2.5V power supply
16	ARO9	Address data output (R signal)
17	ABO9	Address data output (B signal)
18	VDDI	2.5V power supply
19	ADRCLKO2	The address CLK output (for panel upper part)
20	ARO12	Address data output (R signal)
21	ARO13	Address data output (R signal)
22	AGO14	Address data output (G signal)
23	AGO15	Address data output (G signal)
24	ARO16	Address data output (R signal)
25	ARO17	Address data output (R signal)
26	VSS	GND
27	ABO17	Address data output (B signal)
28	AGO17	Address data output (G signal)
29	AGO18	Address data output (G signal)
30	ABO19	Address data output (B signal)
31	UDAT15	Microcomputer data bus
32	UDAT12	Microcomputer data bus
33	UDAT9	Microcomputer data bus
34	UDAT5	Microcomputer data bus
35	OVDDE-06	3.3V power supply
36	APLP	APL value output trigger signal
37	OVDDE-08	3.3V power supply
38	CS5BI	The chip select input
39	CS4BI	The chip select input
40	UADRI13	Microcomputer address bus
41	UADRI9	Microcomputer address bus
42	UADRI6	Microcomputer address bus
43	UADRI2	Microcomputer address bus
44	UADRI1	Microcomputer address bus
45	TESTI2	Test input terminal (unused)
46	BIT0	The subfield No output (the 0 bit)
47	OVDDE-11	3.3V power supply
48	TESTO4	Test output terminal (unused)
49	ARO39	Address data output (G signal)
50	AGO38	Address data output (G signal)

No.	Pin Name	Function
51	VSS	GND
52	ABO37	Address data output (B signal)
53	ABO36	Address data output (B signal)
54	ARO36	Address data output (R signal)
55	ABO34	Address data output (B signal)
56	ADRCLKO4	The address CLK output (for panel bottom part)
57	AGO33	Address data output (G signal)
58	AGO32	Address data output (G signal)
59	AGO31	Address data output (G signal)
60	AGO30	Address data output (G signal)
61	AGO29	Address data output (G signal)
62	VDDI	2.5V power supply
63	ABO27	Address data output (B signal)
64	AGO26	Address data output (G signal)
65	VDDI	2.5V power supply
66	AGO24	Address data output (G signal)
67	VDDI	2.5V power supply
68	ABO22	Address data output (B signal)
69	VDDI	2.5V power supply
70	ARO21	Address data output (R signal)
71	ARO20	Address data output (R signal)
72	VDDI	2.5V power supply
73	OVDDE-14	3.3V power supply
74	TDI	The JTAG input
75	RBI9	The R picture B aspect signal input (the ninth bit)
76	VSS	GND
77	RBI8	The R picture B aspect signal input (the eighth bit)
78	RBI6	The R picture B aspect signal input (the sixth bit)
79	RBI4	The R picture B aspect signal input (the fourth bit)
80	OVSS-09	GND
81	RSTB	Reset input
82	GBI8	The G picture B aspect signal input (the eighth bit)
83	OVDDE-18	3.3V power supply
84	GBI5	The G picture B aspect signal input (the fifth bit)
85	GBI2	The G picture B aspect signal input (the second bit)
86	DEI	DE signal input
87	BBI6	The B picture B aspect signal input (the sixth bit)
88	BBI3	The B picture B aspect signal input (the third bit)
89	VDI	VD signal input
90	HDI	HD signal input The Printing A connect signal input (the givth bit)
91	RAI6 RAI2	The R picture A aspect signal input (the sixth bit) The R picture A aspect signal input (the second bit)
92	TESTI0	
93	OVSS-11	Test input terminal (unused) GND
94	GAI7	The G picture A aspect signal input (the seventh bit
95	GAI7	The G picture A aspect signal input (the seventir bit)
96	GAI0	The G picture A aspect signal input (the third bit) The G picture A aspect signal input (the 0 bit)
98	BAI6	The B picture A aspect signal input (the 6 bit) The B picture A aspect signal input (the sixth bit)
99	BAI3	The B picture A aspect signal input (the sixth bit) The B picture A aspect signal input (the third bit)
100	BAI0	The B picture A aspect signal input (the 0 bit)
	DAIO	The Diplote of appeal digital hipat (the o bit)

TESTO7	No.	Pin Name	Function
103	101	TESTO7	Test output terminal (unused)
SSBBLK input	102	TESTO5	Test output terminal (unused)
105	103	OSDH	OSDH input
106	104	BLK	
107	105	OSDB	OSDB signal input
108	106	NC	NC terminal
109	107	ARO1	Address data output (R signal)
110	108	ARO2	Address data output (R signal)
111	109	ARO3	Address data output (R signal)
112	110	ARO4	Address data output (R signal)
113	111	ARO5	Address data output (R signal)
113	112	ABO5	Address data output (B signal)
115	113	ARO7	Address data output (R signal)
AGO9	114	ARO8	Address data output (R signal)
117	115	ABO8	Address data output (B signal)
118 ADRCLKO1 Address CLK output (for panel upper part) 119 ABO11 Address data output (B signal) 120 ABO12 Address data output (B signal) 121 ARO14 Address data output (R signal) 122 ARO15 Address data output (B signal) 123 ABO15 Address data output (B signal) 124 ABO16 Address data output (B signal) 125 AGO16 Address data output (G signal) 126 ARO18 Address data output (G signal) 127 AGO19 Address data output (G signal) 128 OVDDE-05 3.3V power supply 129 UDAT13 Microcomputer data bus 130 UDAT6 Microcomputer data bus 131 UDAT6 Microcomputer data bus 133 UDAT0 Microcomputer data bus 134 OVDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer address bus 140 UADRI10 Microcomputer address bus	116	AGO9	Address data output (G signal)
119	117	AGO10	
120	118	ADRCLKO1	Address CLK output (for panel upper part)
121	119	ABO11	Address data output (B signal)
122	120	ABO12	Address data output (B signal)
123	121	ARO14	Address data output (R signal)
124	122	ARO15	Address data output (R signal)
125	123	ABO15	Address data output (B signal)
126	124	ABO16	
126	125	AGO16	Address data output (G signal)
128 OVDDE-05 3.3V power supply 129 UDAT13 Microcomputer data bus 130 UDAT10 Microcomputer data bus 131 UDAT6 Microcomputer data bus 132 UDAT3 Microcomputer data bus 133 UDAT0 Microcomputer data bus 134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (R signal) 148	126	ARO18	
129 UDAT13 Microcomputer data bus 130 UDAT10 Microcomputer data bus 131 UDAT6 Microcomputer data bus 132 UDAT3 Microcomputer data bus 133 UDAT0 Microcomputer data bus 134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (R signal)	127	AGO19	Address data output (G signal)
130 UDAT10 Microcomputer data bus 131 UDAT6 Microcomputer data bus 132 UDAT3 Microcomputer data bus 133 UDAT0 Microcomputer data bus 134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output (B signal) 146 ABO38 Address data output (R signal) 148 ARO37 Address data output (G signal)	128	OVDDE-05	3.3V power supply
131 UDAT6 Microcomputer data bus 132 UDAT3 Microcomputer data bus 133 UDAT0 Microcomputer data bus 134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (R signal)	129	UDAT13	Microcomputer data bus
132 UDAT3 Microcomputer data bus 133 UDAT0 Microcomputer data bus 134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (R signal) 148 ARO37 Address data output (G signal) 149 AGO36 Address data output (G signal)	130	UDAT10	Microcomputer data bus
133 UDATO Microcomputer data bus 134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (R signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	131	UDAT6	Microcomputer data bus
134 OVDDE-07 3.3V power supply 135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (G signal) 149 AGO36 Address data output (G signal)	132	UDAT3	Microcomputer data bus
135 LR The panel LR select input 136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	133	UDAT0	Microcomputer data bus
136 RDBI Microcomputer read control terminal 137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (G signal)	134	OVDDE-07	3.3V power supply
137 CLKSEL CLK select input 138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (G signal)	135	LR	The panel LR select input
138 UADRI10 Microcomputer address bus 139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	136	RDBI	Microcomputer read control terminal
139 UADRI7 Microcomputer address bus 140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	137	CLKSEL	·
140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	138	UADRI10	Microcomputer address bus
140 UADRI3 Microcomputer address bus 141 CYCLEB Address data output control signal 142 BIT2 Subfield No. output (the second bit) 143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	139	UADRI7	Microcomputer address bus
BIT2 Subfield No. output (the second bit) SFSTB Address data output control signal OVSS-05 GND TESTO2 Test output terminal (unused) ABO38 Address data output (B signal) ARO38 Address data output (R signal) ARO37 Address data output (R signal) AGO36 Address data output (G signal)	140	UADRI3	
143 SFSTB Address data output control signal 144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	141	CYCLEB	Address data output control signal
144 OVSS-05 GND 145 TESTO2 Test output terminal (unused) 146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	142	BIT2	Subfield No. output (the second bit)
TESTO2 Test output terminal (unused) ABO38 Address data output (B signal) ARO38 Address data output (R signal) ARO37 Address data output (R signal) AGO36 Address data output (G signal)	143	SFSTB	Address data output control signal
146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	144	OVSS-05	GND
146 ABO38 Address data output (B signal) 147 ARO38 Address data output (R signal) 148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	145	TESTO2	Test output terminal (unused)
148 ARO37 Address data output (R signal) 149 AGO36 Address data output (G signal)	146	ABO38	Address data output (B signal)
149 AGO36 Address data output (G signal)	147	ARO38	Address data output (R signal)
	148	ARO37	Address data output (R signal)
	149	AGO36	Address data output (G signal)
150 ARO35 Address data output (R signal)	150	ARO35	Address data output (R signal)

No.	Pin Name	Function	
151	ADRCLKO3	The address CLK output (for panel bottom part)	
152	ABO33	Address data output (B signal)	
153	ABO32	Address data output (B signal)	
154	VDDI	2.5V power supply	
155	ABO30	Address data output (B signal)	
156	VDDI	2.5V power supply	
157	ABO28	Address data output (B signal)	
158	ARO28	Address data output (R signal)	
159	ABO26	Address data output (B signal)	
160	ABO25	Address data output (B signal)	
161	ABO24	Address data output (B signal)	
162	ARO24	Address data output (R signal)	
163	ARO23	Address data output (R signal)	
164	ARO22	Address data output (R signal)	
165	AGO21	Address data output (G signal)	
166	AGO20	Address data output (G signal)	
167	TDO	JTAG signal	
168	TMS	JTAG signal	
169	RBI7	The R picture B aspect signal input (the seventh bit)	
170	TCK	JTAG signal	
171	RBI5	The R picture B aspect signal input (the fifth bit)	
172	RBI3	The R picture B aspect signal input (the third bit)	
173	RBI1	The R picture B aspect signal input (the first bit)	
174	OVDDE-16	3.3V power supply	
175	GBI7	The G picture B aspect signal input (the seventh bit)	
176	OVSS-10	GND	
177	GBI4	The G picture B aspect signal input (the fourth bit)	
178	GBI1	The G picture B aspect signal input (the first bit)	
179	BBI9	The B picture B aspect signal input (the ninth bit)	
180	BBI5	The B picture B aspect signal input (the fifth bit)	
181	BBI2	The B picture B aspect signal input (the second bit)	
182	RAI9	The R picture A aspect signal input (the ninth bit)	
183	CLK3	CLK input terminal (unused)	
184	RAI5	The R picture A aspect signal input (the fifth bit)	
185	RAI1	The R picture A aspect signal input (the first bit)	
186	TESTI1	Test input terminal (unused)	
187	GAI9	The G picture A aspect signal input (the ninth bit)	
188	GAI6	The G picture A aspect signal input (the sixth bit)	
189	GAI2	The G picture A aspect signal input (the second bit)	
190	BAI9	The B picture A aspect signal input (the ninth bit)	
191	BAI5	The B picture A aspect signal input (the fifth bit)	
192	BAI2	The B picture A aspect signal input (the second bit)	
193	BAI1	The B picture A aspect signal input (the first bit)	
194	OVSS-01	GND	
195	OVSS-02	GND	
196	OSDG	OSDG signal input	
197	ARO0	Address data output (R signal)	
198	ABO0	Address data output (B signal)	
199	ABO1	Address data output (B signal)	
200	ABO2	Address data output (B signal)	

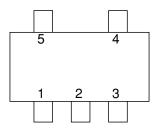
No.	Pin Name	Function	
201	ABO3	Address data output (B signal)	
202	ABO4	Address data output (B signal)	
203	OVDDE-02	3.3V power supply	
204	ABO6	Address data output (B signal)	
205	ABO7	Address data output (B signal)	
206	VDDI	2.5V power supply	
207	OVDDE-03	3.3V power supply	
208	ARO10	Address data output (R signal)	
209	ABO10	Address data output (B signal)	
210	AGO11	Address data output (G signal)	
211	AGO12	Address data output (G signal)	
212	ABO13	Address data output (B signal)	
213	ABO14	Address data output (B signal)	
214	OVDDE-04	3.3V power supply	
215	OVSS-03	GND	
216	ARO19	Address data output (R signal)	
217	TESTO1	Test output (in signal)	
217	UDAT14	Microcomputer data bus	
219	UDAT11	·	
	UDATT1	Microcomputer data bus	
220		Microcomputer data bus	
221	UDAT4	Microcomputer data bus	
222	UDAT1	Microcomputer data bus	
223	VDRD	V signal output	
224	HWRBI	Microcomputer wright control terminal	
225	UADRI14	Microcomputer address bus	
226	OVDDE-09	3.3V power supply Microcomputer address bus	
227	UADRI11	Microcomputer address bus	
228	UADRI8	Microcomputer address bus	
229	UADRI4	Microcomputer address bus	
230	BIT3	Subfield No. output (the third bit)	
231	BIT1	Subfield No. output (the first bit)	
232	OVDDE-10	3.3V power supply	
233	TESTO3	Test output terminal (unused)	
234	ABO39	Address data output (B signal)	
235	AGO37	Address data output (G signal)	
236	OVSS-06	GND	
237	AGO35	Address data output (G signal)	
238	ADRCLKO5	Address CLK output (for panel bottom part)	
239	ARO34	Address data output (R signal)	
240	ARO33	Address data output (R signal)	
241	ABO31	Address data output (B signal)	
242	ARO31	Address data output (R signal)	
243	ABO29	Address data output (B signal)	
244	ARO29	Address data output (R signal)	
245	OVDDE-12	3.3V power supply	
246	ARO27	Address data output (R signal)	
247	ARO26	Address data output (R signal)	
248	ARO25	Address data output (R signal)	
249	OVDDE-13	3.3V power supply	
250	AGO23	Address data output (G signal)	

No.	Pin Name	Function	
251	AGO22	Address data output (G signal)	
252	VDDI	2.5V power supply	
253	ABO20	Address data output (B signal)	
254	OVSS-07	GND	
255	OVDDE-15	3.3V power supply	
256	OVSS-08	GND	
257	RBI2	The R picture B aspect signal input (the second bit)	
258	TRST	JTAG signal	
259	GBI9	The G picture B aspect signal input (the ninth bit)	
260	GBI6	The G picture B aspect signal input (the sixth bit)	
261	OVDDE-17	3.3V power supply	
262	GBI3	The G picture B aspect signal input (the third bit)	
263	GBI0	The G picture B aspect signal input (the 0 bit)	
264	BBI8	The B picture B aspect signal input (the eighth bit)	
265	BBI4	The B picture B aspect signal input (the fourth bit)	
266	BBI1	The B picture B aspect signal input (the first bit)	
267	RAI8	The R picture A aspect signal input (the eighth bit)	
268	OVDDE-19	3.3V power supply	
269	RAI4	The R picture A aspect signal input (the fourth bit)	
270	RAI0	The R picture A aspect signal input (the 0 bit)	
271	FREERUN	The freerun control input	
272	GAI8	The G picture A aspect signal input (the eighth bit)	
273	GAI5	The G picture A aspect signal input (the fifth bit)	
274	GAI1	The G picture A aspect signal input (the first bit)	
275	BAI8	The B picture A aspect signal input (the eighth bit)	
276	BAI4	The B picture A aspect signal input (the fourth bit)	
277	VDDE	3.3V power supply	
278	OSDV	OSDV input	
279	VSS	GND	
280	OSDR	OSDR signal input	
281	VDDE	3.3V power supply	
282	AGO1	Address data output (G signal)	
283	VSS	GND	
284	VDDI	2.5V power supply	
285	VDDI	2.5V power supply	
286	AGO5	Address data output (G signal)	
287	AGO6	Address data output (G signal)	
288	VDDI	2.5V power supply	
289	AGO8	Address data output (G signal)	
290	VSS	GND	
291	ADRCLKO0	The address CLK output (for panel upper part)	
292	VDDE	3.3V power supply	
293	ARO11	Address data output (R signal)	
294	VSS	GND	
295	AGO13	Address data output (G signal)	
296	VDDE	3.3V power supply	
297	ABO18	Address data output (B signal)	
298	VSS	GND	
299	TESTO0	Test output terminal (unused)	
300	VDDI	2.5V power supply	

No.	Pin Name	Function	
301	UDAT8	Microcomputer data bus	
302	VSS	GND	
303	UDAT2	Microcomputer data bus	
304	VDDI	2.5V power supply	
305	OVSS-04	GND	
306	UADRI15	Microcomputer address bus	
307	VDDI	2.5V power supply	
308	UADRI12	Microcomputer address bus	
309	VSS	GND	
310	UADRI5	Microcomputer address bus	
311	VDDI	2.5V power supply	
312	NC	NC terminal	
313	VSS	GND	
314	AGO39	Address data output (G signal)	
315	VDDE	3.3V power supply	
316	ABO35	Address data output (B signal)	
317	VSS	GND	
318	AGO34	Address data output (G signal)	
319	VDDE	3.3V power supply	
320	ARO32	Address data output (R signal)	
321	VSS	GND	
322	ARO30	Address data output (R signal)	
323	VDDI	2.5V power supply	
324	AGO28	Address data output (G signal)	
325	AGO27	Address data output (G signal)	
326	NC	NC terminal	
327	AGO25	Address data output (G signal)	
328	VSS	GND	
329	ABO23	Address data output (B signal)	
330	VDDE	3.3V power supply	
331	ABO21	Address data output (B signal)	
332	VSS	GND	
333	VPD	GND	
334	VDDE	3.3V power supply	
335	RBI0	The R picture B aspect signal input (the 0 bit)	
336	VSS	GND	
337	ACLK	CLK input (25MHz)	
338	VDDI	2.5V power supply	
339	CLK4	CLK input (50MHz)	
340	VSS	GND	
341	BBI7	The B picture B aspect signal input (the seventh bit)	
342	VDDI	2.5V power supply	
343	BBI0	The B picture B aspect signal input (the 0 bit)	
344	RAI7	The B picture B aspect signal input (the obit) The R picture A aspect signal input (the seventh bit)	
345	VDDI	2.5V power supply	
346	RAI3	The R picture A aspect signal input (the third bit)	
347	VSS	GND	
348	CLK2	The image system CLK input	
349	VDDI	2.5V power supply	
350	GAI4	The G picture A aspect signal input (the fourth bit)	
351	VSS	GND	
352	BAI7	The B picture A aspect signal input (the seventh bit)	
332	טאוו	The D picture A aspect signal input (the seventh bit)	

■ PST9246N (DIGITAL VIDEO ASSY: IC1208)

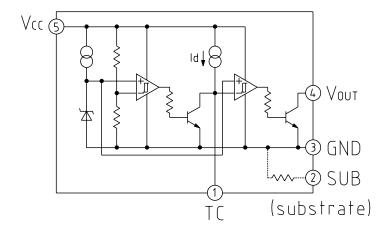
- Reset IC
- Pin Assignment (Top View)



1	TC
2	SUB
3	GND
4	V out
5	Vcc

SOT-25 (TOP VIEW)

• Block Diagram

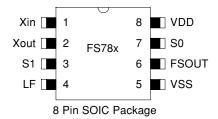


Pin Function

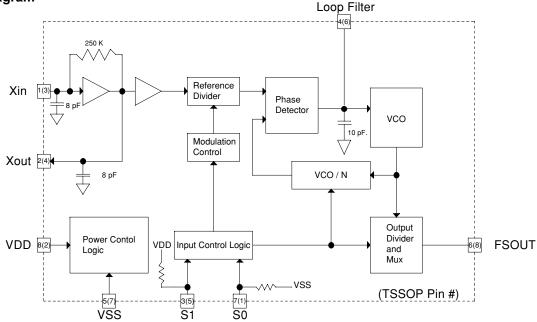
Pin No.	Pin name	Functions			
1	TC	TPLH control pin			
2	SUB	Substrate pin			
3	GND	GND pin			
4	V out	Reset signal output pin			
5	Vcc	Vcc pin/voltage detect pin			

FS781BZB (DIGITAL VIDEO ASSY: IC1802)

- Low EMI Clock IC
- Pin Assignment (Top View)



• Block Diagram



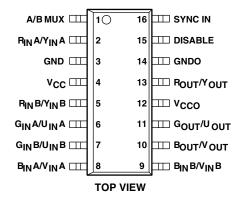
Pin Function

Pin No.	Pin Name	I/O	TYPE	Description
1/2	Xin / Xout	I/O	Analog	Pins form an on-chip reference oscillator when connected to terminals of an external parallel resonant crystal. Xin may be connected to TTL/CMOS external clock source. If Xin connected to external clock other than crystal, leave Xout (pin 2) unconnected.
7/3	S0 / S1	I	CMOS/TTL	Digital control inputs to select input frequency range and output frequency scaling. Refer to Tables 7 & 8 for selection. S0 has internal pulldown. S1 has internal pullup.
4	LF	I	Analog	Loop Filter. Single ended tri-state output of the phase detector. A two-pole passive loop filter is connected to Loop Filter (LF).
6	FSOUT	0	CMOS/TTL	Modulated Clock Frequency Output. The center frequency is the same as the input reference frequency for FS781. Input frequency is multiplied by 2x and 4x for FS782 and FS784 respectively.
8	VDD	Р	Power	Positive Power Supply.
5	VSS	Р	Power	Power Supply Ground

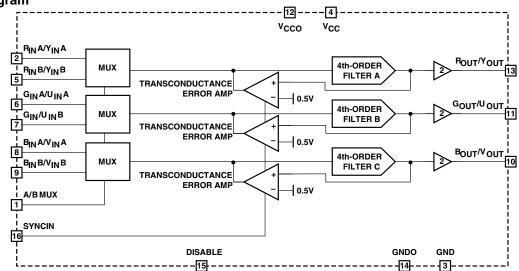
■ ML6426CS-1 (RGB ASSY : IC4403)

• LPF IC

Pin Assignment (Top View)



Block Diagram



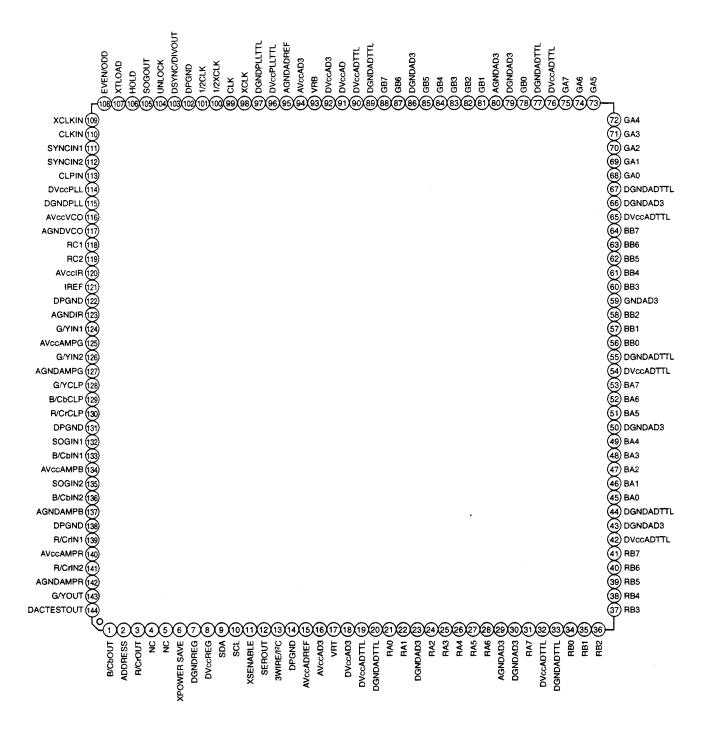
Pin Function

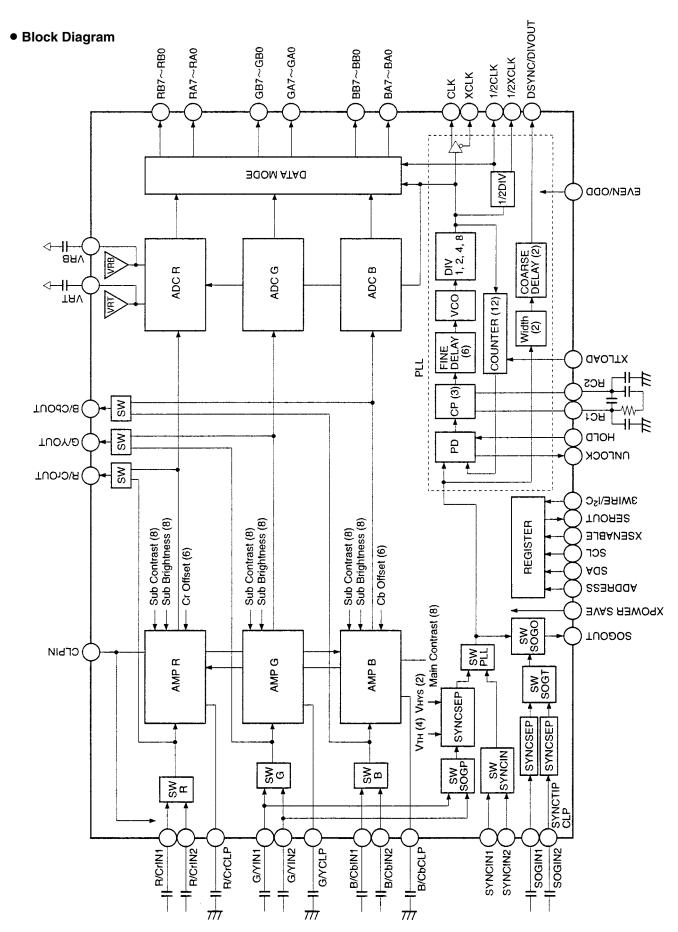
PIN	NAME	FUNCTION	PIN	NAME	FUNCTION
1	A/B MUX	Logic input pin to select between Bank <a> and Bank video inputs. This pin is internally pulled high.	8	B _{IN} A/V _{IN} A	Unfiltered analog B- orV-channel input for Bank <a>. Sync must be provided at SYNC IN pin.
2	R _{IN} A/Y _{IN} A	Unfiltered analog R- orY-channel input for Bank <a>. Sync must be provided at SYNC IN pin.	9	B _{IN} B/V _{IN} B	Unfiltered analog B- orV-channel input for Bank . Sync must be provided at SYNC IN pin.
3	GND	Analog ground	10	B _{OUT}	Analog B or V-channel output
4	V_{CC}	Analog 5V supply	11	G_OUT	Analog G or U-channel output
5	$R_{IN}B/Y_{IN}B$	Unfiltered analog R- or Y-channel input for Bank . Sync must be	12	V_{CCO}	5V power supply for output buffers
		provided at SYNC IN pin.	13	R _{OUT}	Analog R orY-channel output
6	$G_{IN}A/U_{IN}A$	Unfiltered analog G- or U-channel input for Bank <a>. Sync must be	14	GNDO	Analog ground
		provided at SYNC IN pin.	15	DISABLE	Disable/Enable pin.Turns the chip off when logic high. Internally pulled low.
7	G _{IN} B/U _{IN} B	Unfiltered analog G- or U-channel input for Bank . Sync must be provided at SYNC IN pin.	16	SYNCIN	Input for an external H-sync logic signal for filter channels. CMOS level input. Active High.

CXA3516R (RGB ASSY : IC4603)

• AD + PLL IC

Pin Assignment (Top View)





• Pin Function

Pin No.	Symbol	1/0	Typical signal	Description
1	B/CbOUT	0	1.83V	Amplifier output signal monitor
2	ADDRESS	ı		I ² C slave address setting
3	R/CrOUT	0	1.83V	Amplifier output signal monitor
4	NC	_	_	Not used
5	NC	_	_	Not used
6	XPOWER SAVE	1	TTL	Power save setting
7	DGNDREG	_	GND	Register GND
8	DVccREG		5V	Register power supply
9	SDA	ı	-	Control register data input
10	SCL	ı		Control register CLK input
11	XSENABLE	ı	TTL	Enable signal input for 3-wire control register
12	SEROUT	0	ΤΤL	3-wire control register data readout
13	3WIRE/I ² C	1	-	Selection of input between I ² C bus and 3-wire bus
15	AVccADREF		5V	Reference power supply for A/D converter
16, 94	AVccAD3	1	3.3V	Analog power supply for A/D converter
17	VRT	0	2.9V	Top reference voltage output for A/D converter
18, 92	DVccAD3	-	3.3V	Digital power supply for A/D converter
19, 32, 42, 54, 65, 76, 90	DVccADTTL		5V	TTL output power supply for A/D converter
20, 33, 44, 55, 67, 77, 89	DGNDADTTL	_	GND	TTL output GND for A/D converter
21, 22, 24 to 28, 31	RA0 to RA7	0	TTL	Data output for R-channel port A side
23, 30, 43, 50, 59, 66, 79, 86	DGNDAD3		GND	Digital GND for A/D converter
29, 80	AGNDAD3	_	GND	Analog GND for A/D converter
34 to 41	RB0 to RB7	0	TTL	Data output for R-channel port B side
45 to 49, 51 to 53	BA0 to BA7	0	TTL	Data output for B-channel port A side
56 to 58, 60 to 64	BB0 to BB7	0	TTL	Data output for B-channel port B side
68 to 75	GA0 to GA7	0	TTL	Data output for G-channel port A side
78, 81 to 85, 87, 88	GB0 to GB7	0	TTL	Data output for G-channel port B side
91	DVccAD		5V	Digital power supply for A/D converter
93	VRB	0	1.9V	Bottom reference voltage output for A/D converter
95	AGNDADREF	_	GND	Reference voltage GND for A/D converter

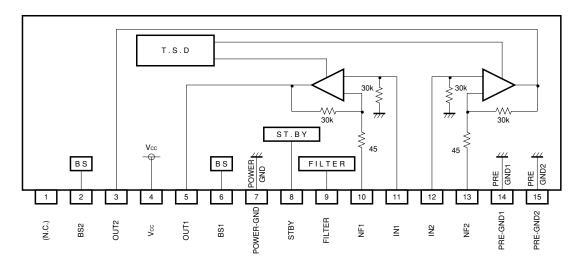
Pin No.	Symbol	1/0	Typical signal	Description
96	DVccPLLTTL	_	5V	TTL output power supply for PLL
97	DGNDPLLTTL	_	GND	TTL output GND for PLL
98	XCLK	0	TTL	Inverted CLK output
99	CLK	0	TTL	CLK output
100	1/2XCLK	0	TTL	Inverted 1/2CLK output
101	1/2CLK	0	TTL	1/2CLK output
103	DSYNC/ DIVOUT	0	TTL	DSYNC or DIVOUT signal output
104	UNLOCK	0	Open collector	Unlock signal output
105	SOGOUT	0	TTL	Output for SYNC ON GREEN
106	HOLD	1	TTL	Input for phase comparison disable signal
107	XTLOAD	I	TTL	Programmable counter reset setting
108	EVEN/ODD	ı	TTL	Inverted pulse input of ADC sampling CLK
109	XCLKIN	ı	PECL	Inverted CLK input for testing
110	CLKIN	-	PECL	CLK input for testing
111	SYNCIN1		ΠL	Sync input 1
112	SYNCIN2	I	TTL	Sync input 2
113	CLPIN	-	TTL	Clamp pulse input
114	DVccPLL	-	5V	Digital power supply for PLL
115	DGNDPLL		GND	Digital GND for PLL
116	AVccVCO	_	5V	Analog power supply for PLL VCO
117	AGNDVCO	_	GND	Analog GND for PLL VCO
118	RC1		2.1V	External pin for PLL loop filter
119	RC2		2 to 4.5V	External pin for PLL loop filter
120	AVccIR		5V	Analog power supply for IREF
121	IREF	1	1.2V	Current setup
123	AGNDIR	_	GND	Analog GND for IREF
124	G/YIN1	١		G/Y signal input 1
125	AVccAMPG	_	5V	Power supply for G/Y amplifier block
126	G/YIN2	ı	— G/Y signal input 2	
127	AGNDAMPG		GND	GND for G/Y amplifier block
128	G/YCLP			Clamp capacitor for brightness
129	B/CbCLP	_	_	Clamp capacitor for brightness
130	R/CrCLP	_	Clamp capacitor for brightness	
132	SOGIN1	ı	2.8V	SYNC ON GREEN signal input 1
133	B/CbIN1	ı		B/Cb signal input 1

Pin No.	Symbol	1/0	Typical signal	Description
134	AVccAMPB	_	5V	Power supply for B/Cb amplifier block
135	SOGIN2	1	2.8V	SYNC ON GREEN signal input 2
136	B/CbIN2	ı	-	B/Cb signal input 2
137	AGNDAMPB		GND	GND for B/Cb amplifier block
139	R/CrIN1	ı	_	R/Cr signal input 1
140	AVccAMPR	_	5V	Power supply for R/Cr amplifier block
141	R/CrIN2	1		R/Cr signal input 2
142	AGNDAMPR		GND	GND for R/Cr amplifier block
143	G/YOUT	0	1.83V	Monitor pin for amplifier output signal
144	DAC TEST OUT	0	5V	DAC testing output for amplifier block control register
14, 102, 122, 131, 138	DPGND	_	GND	GND

■ BA5417 (MX AUDIO ASSY : IC8601)

• Power Amp.

• Block Diagram

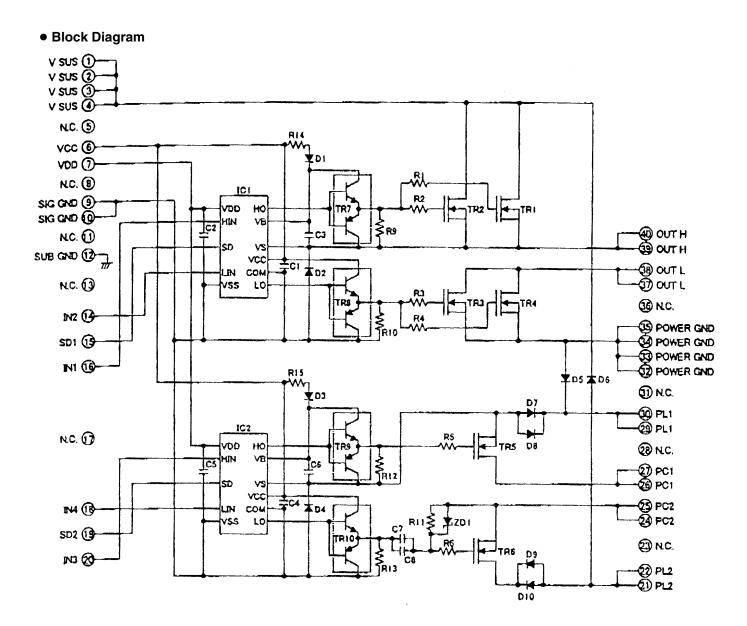


• Pin Function

Terminal No.	Name of terminal	Description
1	(NC)	_
2	BS2	Boot-strap terminal 2
3	OUT2	Output terminal 2
4	VCC	Power source terminal
5	OUT1	Output terminal 1
6	BS1	Boot-strap terminal 1
7	POWER-GND	Power GND
8	STBY	Stand-by control terminal
9	FILTER	Ripple filter terminal
1 0	NF1	Feedback terminal 1
1 1	IN1	Input terminal 1
1 2	IN2	Input terminal 2
1 3	NF2	Feedback terminal 2
1 4	PRE-GND1	Small signal GND 1
1 5	PRE-GND2	Small signal GND 2

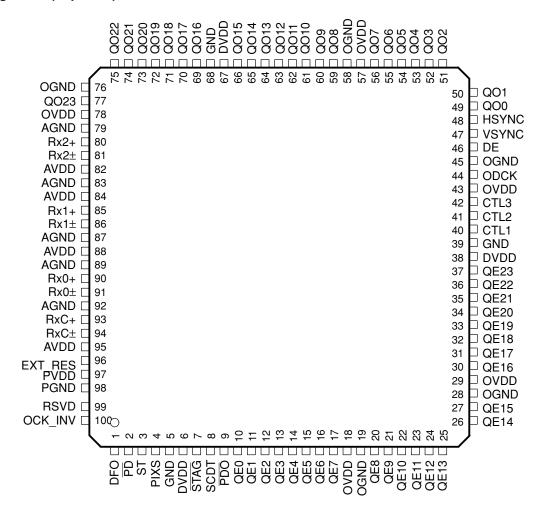
■ STK795-460 (X DRIVE ASSY : IC3200, IC3201) (Y DRIVE ASSY : IC2206, IC2214)

• PDP Pulse Module IC

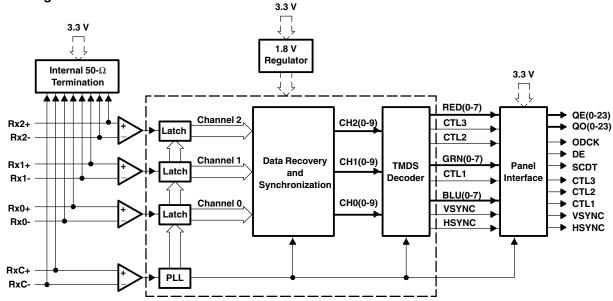


■ TFP201A (VIDEO SLOT ST1 ASSY : IC7401)

- Panel Bus Receiver
- Pin Assignment (Top View)





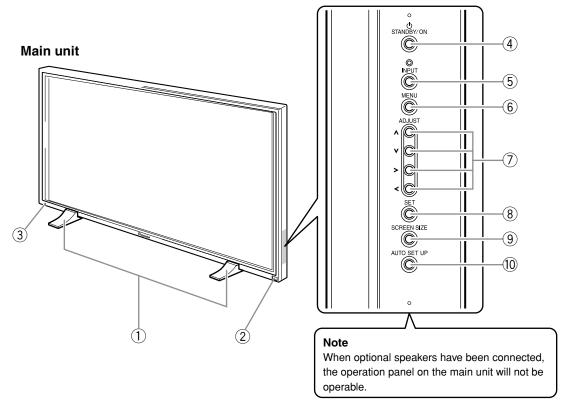


8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

MAIN UNIT

Operation panel on the main unit



Main unit

1 Display stand

(2) Remote control sensor

Point the remote control toward the remote sensor to operate the unit.

(3) STANDBY/ON indicator

This indicator is red during standby mode, and turns to green when the unit is in the operation mode.

Flashes green when Power-Management function is operating.

The flashing pattern is also used to indicate error messages.

Operation panel on the main unit

(4) STANDBY/ON button

Press to put the display in operation or standby mode.

(5) INPUT button

Press to select input.

6 MENU button

Press to open and close the on-screen menu.

(7) ADJUST (▲/▼/►/◄) buttons

Use to navigate menu screens and to adjust various settings on the unit.

Usage of cursor buttons within operations is clearly indicated in the on-screen display.

(8) SET button

Press to adjust or enter various settings on the unit.

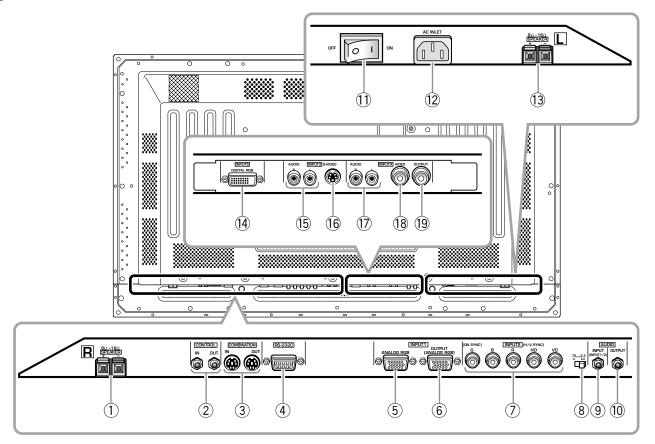
9 SCREEN SIZE button

Press to select the screen size.

10 AUTO SET UP button

When using computer signal input, automatically sets the POSITION and CLOCK/PHASE to optimum values.

CONNECTION PANEL



Plasma Display [PDP-503CMX/PDP-503MXE] Section

The plasma display is provided with 2 video input connectors, 1 video output connector, audio input/output jacks and speaker terminals.

There are also CONTROL IN/OUT jacks for connection of PIONEER components with the $\overline{\mathbf{m}}$ mark.

When this video card is installed on a plasma display, an additional three sets of video input connectors are provided (total five), together with one additional video output connector (total two).

(1) SPEAKER (R) terminal

For connection of an external right speaker. Connect a speaker whose impedance is 8 -16 Ω .

(2) CONTROL IN/OUT (monaural mini jacks)

For connection of PIONEER components that bear the mark. Making CONTROL connection enables control of the plasma display as a component in a system.

③ COMBINATION IN/OUT DO NOT MAKE ANY CONNECTIONS TO THESE TERMINALS.

These terminals are used in the factory setup.

④ RS-232C DO NOT MAKE ANY CONNECTIONS TO THIS TERMINAL.

This terminal is used in the factory setup.

(5) INPUT1 (mini D-sub 15 pin)

For connection of components that have RGB or component output jacks such as a personal computer, DVD player, or external RGB decoder. Make sure that the connection made corresponds to the format of the signal output from the connected component.

6 OUTPUT (INPUT1) (mini D-sub 15 pin)

Use the OUTPUT (INPUT1) connector to output the video signal to an external monitor or other component.

Note: The video signal will not be output from the OUTPUT (INPUT1) connector when the main power of this display is off or in standby mode.

(7) INPUT2 (BNC jacks)

For connection of components that have RGB or component output jacks such as a personal computer, DVD player, or external RGB decoder. Make sure that the connection made corresponds to the format of the signal output from the connected component.

(8) Synchronizing signal impedance selector switch

Depending on the connections made at INPUT2, it may be necessary to set this switch to match the output impedance of the connected component's synchronization signal.

When the output impedance of the component's synchronization signal is above 75 Ω , set this switch to the 2.2 k Ω position.

9 AUDIO INPUT (Stereo mini jack)

Use to obtain sound when INPUT1, INPUT2 or INPUT5 is selected.

Connect this jack to the audio output connector of the device connected to the plasma display's INPUT1 or INPUT2, or to the audio output connector of the device connected to the video card's INPUT5.

10 AUDIO OUTPUT (Stereo mini jack)

Use to output the audio of the selected source component connected to the plasma display to an AV amplifier or similar component.

(1) MAIN POWER switch

Use to switch the main power of the plasma display on and off.

(12) AC INLET

A power cable is furnished with the plasma display; connect one end of the power cable to this connector, and the other end to a standard AC power source.

(13) SPEAKER (L) terminal

For connection of an external left speaker. Connect a speaker that has an impedance of 8 -16 Ω .

Video Card [PDA-5002] Section

The video card is provided with 3 video input connectors, 1 video output connector, and 2 audio input connectors.

(14) INPUT5 (DVI-D jack)

Use to connect a computer.

Note: This unit does not support the display of copyguard-protected video signals.

15 AUDIO INPUT3 (RCA Pin jacks)

Use to obtain sound when INPUT3 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT3.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

16 INPUT3 (S-video jack)

For connection of components that have an S-video output jack such as a video deck, video camera, laser disc player, or DVD player.

17 AUDIO INPUT4 (RCA Pin jacks)

Use to obtain sound when INPUT4 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT4.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

18 INPUT4 (BNC jack)

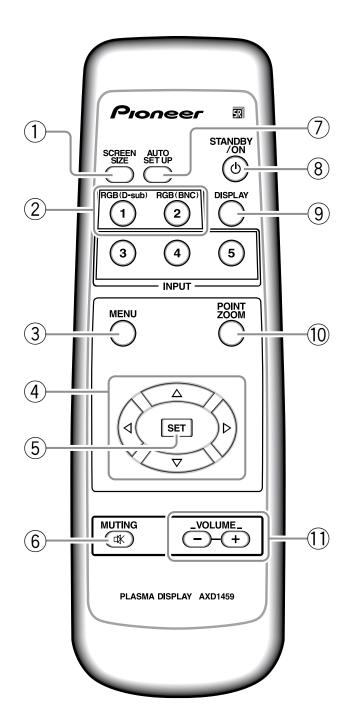
For connection of components that have a composite video output jack such as a video deck, video camera, laser disc player, or DVD player.

(19) OUTPUT (INPUT4) (BNC jack)

Use the OUTPUT (INPUT4) jack to output the video signal to an external monitor or other component.

Note: The video signal will not be output from the OUTPUT (INPUT4) jack when the main power of this display is off or in standby mode.

REMOTE CONTROL UNIT



(1) SCREEN SIZE button

Press to select the screen size.

(2) INPUT buttons

Use to select the input.

3 MENU button

Press to open and close the on-screen menu.

4 ADJUST (▲/▼/►/◄) buttons

Use to navigate menu screens and to adjust various settings on the unit.

Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display.

(5) SET button

Press to adjust or enter various settings on the unit.

6 MUTING button

Press to mute the volume.

(7) AUTO SET UP button

When using computer signal input, automatically sets the POSITION and CLOCK/ PHASE to optimum values.

8 STANDBY/ON button

Press to put the unit in operation or standby mode.

9 DISPLAY button

Press to view the unit's current input and setup mode.

10 POINT ZOOM button

Use to select and enlarge one part of the screen.

① VOLUME (+/–) buttons

Use to adjust the volume.

■ INSTALLING THE VIDEO CARD

Confirm the following before installing this video card:

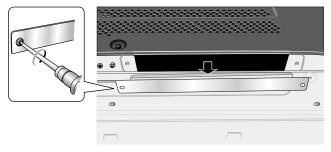
- Disconnect the plasma display from computer or other components.
- Disconnect the plasma display's power cord from its outlet.

Installation Notes:

- When opening the installation cover, take care not to drop screws or other objects in the opening. Objects dropped inside the display may cause damage or malfunction.
- When installing the video card, if the plasma display is laid with its screen side facing down, the work surface should be flat and level, and either the packing material, a blanket, or other soft material should be spread on the work surface first to protect the screen. Take care to prevent scratches or other damage to the unit from tools or other objects. Never rest the display on a surface in such a way that weight or pressure is placed only on the screen surface.
- This video card has been designed for exclusive use with the Pioneer Plasma Display PDP-503CMX/PDP-503MXE. Do not attempt unauthorized modifications or alterations since malfunction or damage may result.
- Take care not to modify or damage the card's internal devices in any way.
- Before installation, take precautions to eliminate static electricity on your body. Do not touch the card's circuitry or devices.
- This device has not been designed to allow reinstallation or removal; after the card has once been installed on the plasma display, do not attempt to remove it since damage may result.

Installation

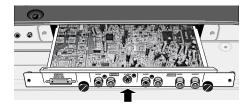
1 Remove the protective cover over the video card slot on the plasma display's terminal panel.



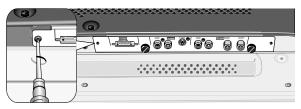
2 Insert the video card gently and evenly in alignment with the two rails (white) visible inside the installation port.

Note

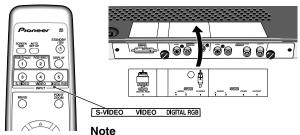
Be very careful when inserting the card. Insert straight! The card or display may be damaged if the card is inserted crooked or with excessive force.



3 After inserting the video card all the way into the slot, confirm that it is seated securely, then use the screws removed in step 1 to secure the card in place.



4 Affix the accessory connector indicator label to the plasma display, and affix the remote control unit label to the remote control unit furnished with the plasma display.



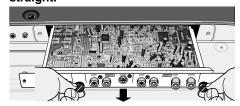
Use a soft cloth to gently wipe any dust from the surface before affixing the label.

Video Card Removal (In principle, removal of the video card should not be attempted).

1 Remove the two screws holding the video card.



2 Holding the inside tabs, pull the video card out straight.

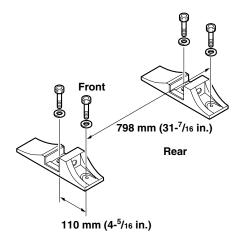


■ INSTALLATION OF THE UNIT

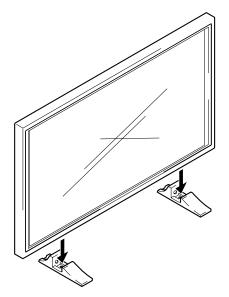
Installation using the supplied display stand

Be sure to fix the supplied stand to the installation surface. Use commercially available M8 bolts that are 25 mm longer than the thickness of the installation surface.

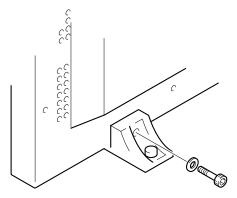
1 Fix the supplied stand to the installation surface at each of the 4 prepared holes using commercially available M8 bolts.



2 Set this unit in the stand.



3 Fix this unit using the supplied washer and bolt.



Use a 6 mm hex wrench to bolt them.



Because this unit weighs about 88 lbs 3 oz (about 40 kg) and the lack of depth makes it fairly unstable, please use 2 people or more when packing, carrying or installing.

Installation using the optional PIONEER stand or installation bracket

- Please be sure to request installation or mounting of this unit or the installation bracket by an installation specialist or the dealer where purchased.
- When installing, be sure to use the bolts provided with the stand or installation bracket.
- For details concerning installation, please refer to the instruction manual provided with the stand or installation bracket.

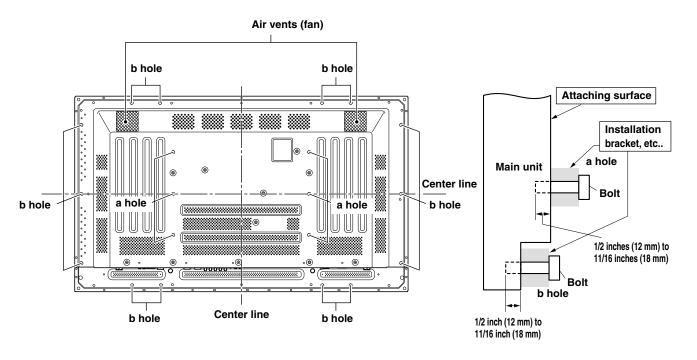
Installation using accessories other than the PIONEER stand or installation bracket (sold separately)

- When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not he held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
- For custom installation, please consult the dealer where the unit was purchased, or a qualified installer.

Wall-mount installation of the unit

This unit has been designed with bolt holes for wall-mount installation, etc.. The installation holes that can be used are shown in the diagram below.

- Be sure to attach in 4 or more locations above and below. left and right of the center line.
- Use bolts that are long enough to be inserted 1/2 inch (12 mm) to 11/16 inch (18 mm) into the main unit from the attaching surface for both a holes and b holes. Refer to the side view diagram below.
- As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.



Rear view diagram

Side view diagram



A CAUTION

To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface wall, etc..



CAUTION

Please be sure to use an M8 (Pitch = 1.25 mm) bolt. (Only this size bolt can be used.)



A CAUTION

Because this unit weighs about 88 lbs 3 oz (about 40 kg) and the lack of depth makes it fairly unstable, please use 2 people or more when packing, carrying or installing.



CAUTION

This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.

8.2 SPECIFICATIONS

PLASMA DIAPLAY (PDP-503CMX and PDP-503MXE)

General	II
Light emission panel50 inch plasma display panel	
Number of pixels	
Power supply AC 100 - 120 V, 50/60 Hz (PDP-503CMX)	
Power supply AC 100 - 240 V, 50/60 Hz (PDP-503MXE)	
Rated current	
Rated current 3.8 A - 3.1A (PDP-503MXE)	
Standby power consumption1 W	
External dimensions 1218 (W) x 714 (H) x 98 (D) mm	
47-31/32 (W) x 28-1/8 (H) x 3-7/8 (D) in.	A
(including display stand)	
47-31/32 (W) x 29-1/32 (H) x 11-13/16 (D) in.	
Weight	
(including display stand)39.5 kg (87 lbs. 1 oz)	
, , , , , , , , , , , , , , , , , , , ,	

Input/output Video

INPUT 1

(Input)

Mini D-sub 15 pin (socket connector) RGB signal (G ON SYNC compatible) RGB ... 0.7 Vp-p/75 Ω /no sync. HD/CS, VD ... TTL level /positive and negative polarity /2.2 k Ω G ON SYNC ... 1 Vp-p/75 Ω /negative sync. *Compatible with Microsoft's Plug & Play (VESA DDC1/2B)

Output Mini D-sub 15 pin (socket connector)
75 Ω/with buffer

INPUT 2

(Input)

BNC jack (x5)

RGB signal (G ON SYNC compatible) RGB ... $0.7 \text{ Vp-p/75} \Omega/\text{no sync}$.

HD/CS, VD ... TTL level

/positive and negative polarity/

75 Ω or 2.2 k Ω (impedance switch)

G ON SYNC ...

1 Vp-p/75 Ω /negative sync.

Audio

(Input

AUDIO INPUT (for INPUT 1/2)

Stereo mini jack

 $L/R \dots 500 mVrms/more than 10 k\Omega$

Output AUDIO OUTPUT

Stereo mini jack

L/R ... 500mVrms (max)/less than 5 k Ω

SPEAKER

L/R ... 8 – 16 Ω /2W +2W (at 8 Ω)

Control

RS-232C ... D-sub 9 pin (pin connector)
COMBINATION IN/OUT
... Mini DIN 6 pin (x2)

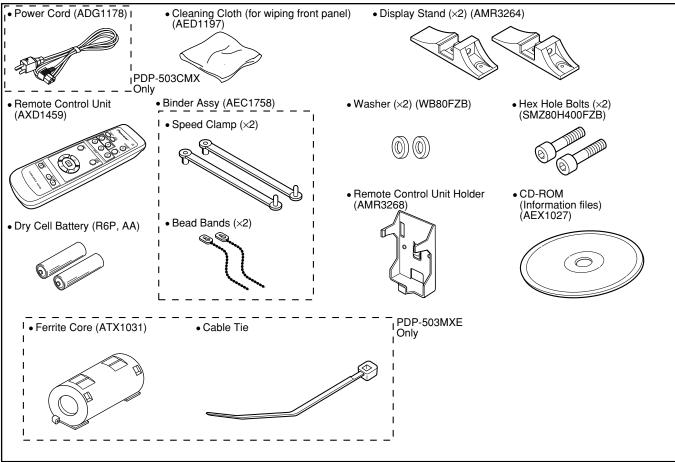
CONTROL IN/OUT ... monaural mini jack (x2)

Accessories

Power cord	1 (PDP-503CMX Only)
Remote control unit	1
Remote control unit holder	1
AA (R6) batteries	2
Cleaning cloth	1
Speed clamps	
Bead bands	
Warranty	1 (PDP-503CMX Only)
Operating Instructions	1
Display stands	
Washers	
Hex hole bolts (M8X40)	2
CD-ROM (information files)	1
Ferrite core	
Cable tie	•
	,

 Due to improvements, specifications and design are subject to change without notice.

• Accessories



■ VIDEO CARD [PDA-5002]

General

External dimensions 243.8 (W) x 23.6 (H) x 144 (D) mm 9–5/8 (W) x 29/32 (H) x 5–11/16 (D) in. Weight 0.3 kg (0.7 lbs.) Operating temperature range 0 to 40 $^{\circ}$ C (32 to 104 $^{\circ}$ F)

Input/output

Video

INPUT 3

Input

S terminal (Mini DIN 4 pin)

• Y/C saparate video signal Y . . . 1 Vp-p/75 Ω/negative sync.

C . . . 0.286 Vp-p/75 Ω (NTSC) 0.3 Vp-p/75 Ω (PAL)

INPUT 4

Input

BNC jack

Composite video signal
 1 Vp-p/75 Ω/negative sync.

Output BNC jack

 75Ω /with buffer

INPUT 5

Input

DVI-D 24-pin connector

- Digital RGB signal (DVI compliant TMDS signal)
- * INPUT 5 supports Microsoft "Plug & Play" (VESA DDC 2B) standards.

Audio

Input

AUDIO INPUT (for INPUT 3)

Pin jack (x2)

L/R ... 500mVrms/more than 10 $k\Omega$

AUDIO INPUT (for INPUT 4)

Pin iack (x2)

L/R ... 500mVrms/more than 10 $k\Omega$

Accessories

Label for remote control unit1
BNC/Pin conversion adaptor 1
Connector indicator label 1
Operating Instructions 1
Warranty 1

 Due to improvements, specifications and design are subject to change without notice.

Accessories

• Label for Remote Control Unit (AAX2861)

S-VIDEO VIDEO DIGITAL RGB

• BNC/Pin Conversion Adaptor (AKX1052)



• Connector Indicator Label (AAX2854)



 Screws × 2 (Accessory screws for installing video card) (BMZ30P060FZK)

